ELS DESIGN STANDARD · RESIDENTIAL

Electrical Datum

One datum per point. No site guessing.

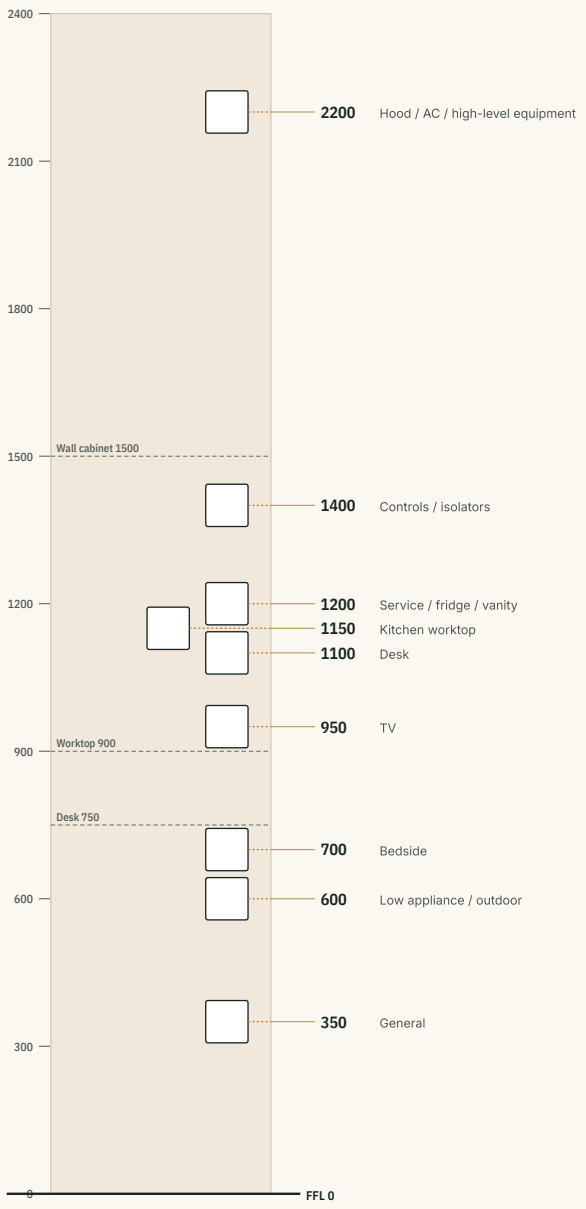
V1.4

mm, FFL → CL

14 Nov 2026

350 · 600 · 700 · 950 · 1100 · 1150 · 1200 · 1400 · 2200 mm

The nine starting coordination datums



Wall elevation drawn to scale. Each square is an illustrative 86 × 86 mm plate: actual sockets, isolators and fittings vary. Dashed lines are illustrative furniture reference heights, not datums; the actual fitting dimensions, furniture and room geometry govern.

THE NINE STARTING COORDINATION DATUMS

350	General
600	Low appliance / outdoor
700	Bedside
950	TV
1100	Desk
1150	Kitchen worktop
1200	Service / fridge / vanity
1400	Controls / isolators
2200	Hood / AC / high-level equipment

HOW TO USE IT

- **An ELS design standard, not a statutory height.** This sheet provides ELS planning references. Final locations and electrical arrangements must meet applicable Sarawak requirements and the selected equipment's installation instructions, verified by the appointed electrical installation contractor.
- **Every height is FFL → centre line.** Not the underside of the box, not the top of the plate. Set FFL from the finished floor build-up, not the slab.
- **The appliance manual wins.** Check dishwasher, oven, fridge, AC, water heater and cooker connection positions at design freeze.
- **Wet zones win.** Bathroom points go only where the wet-zone requirements permit.
- **Plan position is drawn, height is this sheet.** Mark the wall and offset on the M&E plan; the height comes from the schedule.
- **Wiring is done by a registered electrical contractor.**
- **This sheet does not establish statutory compliance.** A datum schedule alone is not an electrical design or an approval. Electrical verification stays with the appropriately registered contractor. ELS+ delivery applies only to contracted works.

The starting datums apply to every point except the floor box and the island socket. The final position follows the room's geometry, the equipment's instructions, access and the applicable requirements. The island socket has no fixed height.

32 points by use

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14 Nov 2026

ID	POINT	STARTING DATUM (MM)	PLACEMENT RULE	WHAT CAN CHANGE IT	PROJECT-CONFIRMED POSITION · STATUS
GENERAL LIVING 6					
GEN-01	General 13A socket	**350**	Dry-area universal socket	Actual furniture, screen and bracket, drawers and cable access. A reference height, not a guaranteed concealed or reachable position.	— Proposed
BED-01	Bedside socket / USB	**700**	Above typical bedside cabinet	Actual bedside furniture, mattress height and cable access. A reference height, not a guaranteed concealed or reachable position.	— Proposed
LIV-01	TV console socket	**350**	Low equipment zone	Actual furniture, screen and bracket, drawers and cable access. A reference height, not a guaranteed concealed or reachable position.	— Proposed
LIV-02	Wall-TV power + data	**950**	Concealed behind TV	The screen bracket, screen size, drawers and cable access. A reference height, not a guaranteed concealed position.	— Proposed
GEN-02	Desk / study socket	**1100**	Above typical 750 mm desk	The actual desk, its drawers and cable access (the reference assumes a typical 750 mm desk). Where the desk sits under a window, set the socket position together with the window's frame-bottom height (see the doors and windows height and coordinate guide).	— Proposed
LIV-03	Router / network equipment power	**1100**	Prefer dedicated structured-media location	Actual furniture, screen and bracket, drawers and cable access. A reference height, not a guaranteed concealed or reachable position.	— Proposed
KITCHEN 10					
KIT-01	Kitchen countertop socket	**1150**	Typical 900 mm worktop	Show the actual worktop height beside the socket position (1150 mm assumes a typical 900 mm worktop). Check plate clearance, backsplash joints, appliances and splash exposure. Where a window sits above the worktop, set the socket position together with the window's frame-bottom height (see the doors and windows height and coordinate guide).	— Proposed
KIT-02	Kitchen island socket	**no fixed height**	set per island, below the worktop on a side or end panel, coordinated with the island's height, water exposure and the chosen accessory	The island's height, water exposure, access and the chosen accessory. No universal height is substituted.	— Proposed
KIT-03	Refrigerator dedicated socket	**1200**	Adjacent accessible service zone, not trapped behind fridge	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure.	— Proposed
KIT-04	Dishwasher socket	**600**	In adjacent cabinet/service bay, never directly behind dishwasher	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure.	— Proposed
KIT-05	Under-counter oven connection / socket	**600**	Adjacent cabinet/service bay	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure.	— Proposed
KIT-06	Built-in oven isolator	**1400**	Accessible outside appliance cavity	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
KIT-07	Built-in microwave socket	**1400**	Adjacent service cabinet	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
KIT-08	Coffee-machine / appliance tower socket	**1400**	Accessible within adjacent appliance/service zone	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
KIT-09	Cooker / induction hob isolator	**1400**	Dedicated circuit; not directly above hob	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed

ID	POINT	STARTING DATUM (MM)	PLACEMENT RULE	WHAT CAN CHANGE IT	PROJECT-CONFIRMED POSITION · STATUS
KIT-10	Cooker hood socket	2200	Concealed/accessibly located above or within hood cabinet	The actual worktop height, backsplash joints, appliances, plate clearance and splash exposure.	— Proposed
LAUNDRY 2					
UTL-01	Washing-machine socket	1200	Beside machine, away from hoses	The machine's own instructions, hose positions and service access.	— Proposed
UTL-02	Dryer socket	1200	Dedicated accessible point	The machine's own instructions, hose positions and service access.	— Proposed
BATHROOM 4					
BAT-01	Mirror / mirror-cabinet power	1200	Coordinate basin/mirror geometry	Wet-area review first, then basin and shower positions, mirror cabinet and the equipment's instructions. Height never implies permission.	— Proposed
BAT-02	Bathroom shaver socket	1200	Only where wet-zone requirements permit	Wet-area review first, then basin and shower positions, mirror cabinet and the equipment's instructions. Height never implies permission.	— Proposed
BAT-03	Instant water-heater isolator	1400	Outside inappropriate wet zone	Wet-area review first, then basin and shower positions, mirror cabinet and the equipment's instructions. Height never implies permission. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
BAT-04	Storage water-heater isolator	1400	Accessible outside wet zone	Wet-area review first, then basin and shower positions, mirror cabinet and the equipment's instructions. Height never implies permission. Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
MECHANICAL 3					
GEN-03	Air-conditioner isolator	2200	Near equipment, accessible for servicing	The equipment's own instructions, its mounting position and service access.	— Proposed
GEN-04	15A dedicated AC/equipment outlet	2200	Where equipment/system specifically requires 15A	The equipment's own instructions, its mounting position and service access.	— Proposed
UTL-03	Water-pump isolator	1200	Accessible, dry/serviceable location	The equipment's own instructions, its mounting position and service access.	— Proposed
EXTERNAL 4					
UTL-04	Outdoor general socket	600	Weatherproof and above normal splash zone	Site-specific rain, splash and flood exposure. Height alone does not establish suitability.	— Proposed
UTL-05	Balcony socket	600	Weatherproof	Site-specific rain, splash and flood exposure. Height alone does not establish suitability.	— Proposed
UTL-06	Autogate power / isolator	1200	Protected service location	Site-specific rain, splash and flood exposure. Height alone does not establish suitability.	— Proposed
UTL-07	CCTV / security equipment power	2200	High-level service point where appropriate	Site-specific rain, splash and flood exposure. Height alone does not establish suitability.	— Proposed
SPECIAL 1					
GEN-05	Floor box	0	Flush with finished floor; location dimensioned in plan	The plan dimensions and the finished floor build-up.	— Proposed
CONTROLS 2					
GEN-06	Light switch	1400	ELS control datum	Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed
GEN-07	General appliance isolator	1400	ELS common control datum	Reach, doors, furniture and safe operation; an accessible project-specific position is allowed.	— Proposed

Not on this sheet? A point this schedule does not list (for example an EV charger) is set per project and drawn on the M&E plan until ELS adds a datum for it. The project-confirmed position is set on the project's M&E plan, so it is blank here; every status on this sheet is a label only.

The schedule by space

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14 Nov 2026

The spaces are those of four ELS reference homes. A row points at a reference on this sheet and adds no height; a home's own plan decides which points it has. A project-specific point has no reference height and is shown without one.

THE REFERENCE HOMES

Apartment · 3 bedrooms, 2 bathrooms: Main Entrance, Living Room, Dining Room, Kitchen, Laundry / utility, Master bedroom, Bedrooms 2–3, Bathrooms (2), Balcony

Mid-terrace house · 4 bedrooms, 3 bathrooms: Main Entrance, Living Room, Dining Room, Dry kitchen, Wet kitchen, Laundry / utility, Master bedroom, Bedrooms 2–4, Bathrooms (3), Staircase and upstairs landing, Balcony, Car porch and outdoor, Gate

Semi-D · 5 bedrooms, 4 bathrooms: Main Entrance, Living Room, Dining Room, Dry kitchen, Wet kitchen, Laundry / utility, Master bedroom, Other four bedrooms, Bathrooms (4), Staircase and landing, Balcony, Car porch, garden and outdoor, Gate

Bungalow (detached) · 6 bedrooms, 5 bathrooms: Main Entrance, Living Room, Dining Room, Dry kitchen, Wet kitchen, Laundry / utility, Master bedroom, Other five bedrooms, Bathrooms (5), Staircase and family landing, Study and circulation areas, Balcony, Car porch, garden and outdoor, Gate

POINTS BY SPACE

Main Entrance
All four homes
GEN-06 Light switch: 1400 mm
GEN-01 General 13A socket: 350 mm
GEN-P1 Doorbell push-button or video doorbell / intercom entrance station: project-specific

Living Room
All four homes
GEN-01 General 13A socket: 350 mm
LIV-01 TV console socket: 350 mm
LIV-02 Wall-TV power + data: 950 mm
LIV-03 Router / network equipment power: 1100 mm
GEN-06 Light switch: 1400 mm
GEN-03 Air-conditioner isolator: 2200 mm
GEN-05 Floor box: flush with FFL
GEN-P6 Ceiling fan point (ceiling point): project-specific
GEN-P8 TV outlet plate: project-specific
GEN-P9 Data outlet plate: project-specific
GEN-P3 Wired Wi-Fi access point: project-specific

Dining Room
All four homes
GEN-01 General 13A socket: 350 mm
GEN-06 Light switch: 1400 mm
GEN-P5 Dimmer: project-specific
GEN-P7 Pendant light point (ceiling point): project-specific
GEN-P6 Ceiling fan point (ceiling point): project-specific

Kitchen and dry kitchen
All four homes
KIT-01 Kitchen countertop socket: 1150 mm
KIT-02 Kitchen island socket: no fixed height, set per island
KIT-03 Refrigerator dedicated socket: 1200 mm
KIT-06 Built-in oven isolator: 1400 mm
KIT-07 Built-in microwave socket: 1400 mm
KIT-08 Coffee-machine / appliance tower socket: 1400 mm
KIT-09 Cooker / induction hob isolator: 1400 mm
KIT-10 Cooker hood socket: 2200 mm
KIT-04 Dishwasher socket: 600 mm
KIT-05 Under-counter oven connection / socket: 600 mm
GEN-06 Light switch: 1400 mm
GEN-P10 Cabinet task-light supply: project-specific

Wet kitchen
Mid-terrace house, Semi-D, Bungalow (detached)
KIT-01 Kitchen countertop socket: 1150 mm
KIT-10 Cooker hood socket: 2200 mm
KIT-09 Cooker / induction hob isolator: 1400 mm
GEN-07 General appliance isolator: 1400 mm
GEN-06 Light switch: 1400 mm

Laundry / utility
All four homes
UTL-01 Washing-machine socket: 1200 mm
UTL-02 Dryer socket: 1200 mm
GEN-07 General appliance isolator: 1400 mm
GEN-06 Light switch: 1400 mm

Master bedroom
All four homes
GEN-01 General 13A socket: 350 mm
BED-01 Bedside socket / USB: 700 mm
GEN-02 Desk / study socket: 1100 mm
LIV-02 Wall-TV power + data: 950 mm
GEN-06 Light switch: 1400 mm
GEN-03 Air-conditioner isolator: 2200 mm
GEN-P6 Ceiling fan point (ceiling point): project-specific
GEN-P11 Wardrobe light supply: project-specific

Other bedrooms
All four homes
GEN-01 General 13A socket: 350 mm
BED-01 Bedside socket / USB: 700 mm
GEN-02 Desk / study socket: 1100 mm
LIV-02 Wall-TV power + data: 950 mm
GEN-06 Light switch: 1400 mm
GEN-03 Air-conditioner isolator: 2200 mm
GEN-P6 Ceiling fan point (ceiling point): project-specific
GEN-P11 Wardrobe light supply: project-specific

Bathrooms
All four homes
BAT-01 Mirror / mirror-cabinet power: 1200 mm
BAT-02 Bathroom shaver socket: 1200 mm
BAT-03 Instant water-heater isolator: 1400 mm (for the heater type selected)
BAT-04 Storage water-heater isolator: 1400 mm (for the heater type selected)
GEN-06 Light switch: 1400 mm
GEN-P12 Exhaust fan point: project-specific
GEN-P13 Vanity face-light point: project-specific

Staircase and landing
Mid-terrace house, Semi-D, Bungalow (detached)
GEN-06 Light switch: 1400 mm
GEN-01 General 13A socket: 350 mm
GEN-P14 Two-way switching position: project-specific

Study and circulation areas
Bungalow (detached)
GEN-02 Desk / study socket: 1100 mm
GEN-01 General 13A socket: 350 mm
LIV-03 Router / network equipment power: 1100 mm
GEN-06 Light switch: 1400 mm
GEN-05 Floor box: flush with FFL
GEN-P9 Data outlet plate: project-specific

Balcony
All four homes
UTL-05 Balcony socket: 600 mm
GEN-06 Light switch: 1400 mm
GEN-P15 Outdoor light point: project-specific

Car porch, garden and outdoor
Mid-terrace house, Semi-D, Bungalow (detached)
UTL-04 Outdoor general socket: 600 mm
UTL-07 CCTV / security equipment power: 2200 mm
GEN-06 Light switch: 1400 mm
GEN-P16 Outdoor wall or porch light point: project-specific
GEN-P17 External lighting control (timer or photocell): project-specific
GEN-P18 CCTV camera positions: project-specific

Gate
Mid-terrace house, Semi-D, Bungalow (detached)
UTL-06 Autogate power / isolator: 1200 mm
GEN-P19 Gate-pillar light point: project-specific

Not tied to one space
Set per project. The home's own plan fixes where each sits.
UTL-03 Water-pump isolator: 1200 mm
GEN-04 15A dedicated AC/equipment outlet: 2200 mm
GEN-P2 Private distribution board (where the home has one): project-specific
GEN-P4 CCTV recorder (where the home has one): project-specific

Status, optional interfaces, checks

V1.4
mm, FFL → CL
14 Nov 2026

VERIFICATION STATUS

1. Proposed → 2. Coordinated → 3. Contractor verified → 4. Installed and tested

A project's own records move a point along this sequence. On this public sheet the statuses are labels only, and nothing here is approved.

OPTIONAL KITCHEN INTERFACES

Project-specific, with no reference height. Each appears on a project only when it is selected, and none is priced or included automatically.

KIT-P1 Water purifier. A power point beside the under-sink or tower position, the water connection and access to change the filter.

KIT-P2 Waste disposer. A switched power point, the sink and drain position, and access to service it.

KIT-P3 Cabinet and task-lighting drivers. The driver position, the switching, and access to replace a driver without removing fixed cabinetry.

KIT-P4 Future dishwasher provision. A power and water provision in the adjacent service bay, never directly behind the dishwasher, with the actual installation instructions followed.

KIT-P5 Appliance garage. Socket positions inside the garage and the cable route, kept clear of heat, steam and moving doors.

KIT-P6 Powered cabinet accessories. The power and control position for each motorised or powered accessory, and access to service it.

KIT-P7 Kitchen cooling. The connection and isolation for any fan or air-conditioning unit serving the kitchen, with its service access.

KIT-P8 Island power routing. How power reaches the island through the floor or the cabinetry, coordinated with the island's height, water exposure and the chosen accessory.

OTHER PROJECT-SPECIFIC POINTS

Project-specific, with no reference height. Each appears on a project only when it is selected, and none is priced or included automatically.

GEN-P1 Doorbell push-button or video doorbell / intercom entrance station. The door and its frame, the entrance wall and the cable route to the indoor unit.

GEN-P2 Private distribution board. Service access to the board, the meter position and the wall or cabinet it sits in.

GEN-P3 Wired Wi-Fi access point. The ceiling or wall position and the data cable route to it.

GEN-P4 CCTV recorder. Ventilation around the recorder and the cable routes to the cameras and the network.

GEN-P5 Dimmer. The lamp and driver it controls, and the switch position.

THE FIVE CHECKS, FOR EVERY ROOM

1. **Position.** Dimension the point horizontally on the plan and vertically from finished floor level.
2. **Fit.** Check the actual furniture, accessory plate, appliance and cabinet dimensions.
3. **Use.** Confirm reach, switching, glare, trailing cables and simultaneous appliance use.
4. **Service.** Show how connections, drivers and equipment can be isolated, accessed and replaced.
5. **Verification.** Distinguish proposed design positions from contractor-verified electrical arrangements.

Connection schedule

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14 Nov 2026

CONNECTION SCHEDULE, A SPECIMEN

Height answers only one part of electrical planning. A connection schedule records, for each appliance or point, what it needs and who verifies it. These three lines are illustrations: they describe no project and no product, and ELS calculates no cable size, protection or circuit rating.

KIT-05

Point ID
KIT-05

Room
Kitchen

Appliance and model status
Under-counter oven; model not chosen yet

Rated load
From the selected product's documentation

Connection requirement
Per the manufacturer's instructions; the contractor confirms the arrangement

Plan position
Wall and offset dimensioned on the plan

Final height, FFL to CL
Set per project; the reference datum is 600 mm

Isolation and access
Adjacent service bay, reachable without removing the oven

Cabinet, plumbing and lighting interfaces
Cabinet cut-out and ventilation

Trade
Appointed electrical installation contractor

Verification status
Proposed

KIT-02

Point ID
KIT-02

Room
Kitchen

Appliance and model status
Island socket; accessory not chosen yet

Rated load
From the selected product's documentation

Connection requirement
Per the manufacturer's instructions; the contractor confirms the arrangement

Plan position
Wall and offset dimensioned on the plan

Final height, FFL to CL
Set per island, below the worktop on a side or end panel

Isolation and access
Reachable without moving fixed furniture

Cabinet, plumbing and lighting interfaces
Island panel, floor or cabinet routing, water exposure

Trade
Appointed electrical installation contractor

Verification status
Proposed

BAT-03

Point ID
BAT-03

Room
Bathroom

Appliance and model status
Water heater; model not chosen yet

Rated load
From the selected product's documentation

Connection requirement
Per the manufacturer's instructions; the contractor confirms the arrangement

Plan position
Wall and offset dimensioned on the plan

Final height, FFL to CL
Set after the wet-area review; the reference datum is 1400 mm

Isolation and access
Isolation outside the wet area where the contractor requires it

Cabinet, plumbing and lighting interfaces
Plumbing and the ceiling or wall

Trade
Appointed electrical installation contractor

Verification status
Proposed

Four rooms

V1.4
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14 Nov 2026

Kitchen

Coordinate with: Actual appliances, worktop height, backsplash, sink and plumbing, cabinet modules, ventilation and service access.

Appliances, simultaneous use and cabinet services are coordinated together.

ID	ITEM	EVERYDAY USE	REFERENCE
KIT-C01	Worktop sockets	Worktop and island	KIT-01 1150 mm
KIT-C02	Island power	Worktop and island	KIT-02 no fixed height, set per island
KIT-C03	Fridge	Cold, wet and cleaning	KIT-03 1200 mm
KIT-C04	Dishwasher	Cold, wet and cleaning	KIT-04 600 mm
KIT-C05	Hob	Cooking	KIT-09 1400 mm
KIT-C06	Oven	Cooking	KIT-05 600 mm · KIT-06 1400 mm
KIT-C07	Microwave	Cooking	KIT-07 1400 mm
KIT-C08	Hood	Cooking	KIT-10 2200 mm
KIT-C09	Coffee machine and appliance tower	Worktop and island	KIT-08 1400 mm
KIT-P1	Water purifier *(optional)*	Cold, wet and cleaning	Project-specific: to be coordinated
KIT-P2	Waste disposer *(optional)*	Cold, wet and cleaning	Project-specific: to be coordinated
KIT-P3	Cabinet and task-lighting drivers *(optional)*	Light and air	Project-specific: to be coordinated
KIT-P4	Future dishwasher provision *(optional)*	Cold, wet and cleaning	Project-specific: to be coordinated
KIT-P5	Appliance garage *(optional)*	Worktop and island	Project-specific: to be coordinated
KIT-P6	Powered cabinet accessories *(optional)*	Worktop and island	Project-specific: to be coordinated
KIT-P7	Kitchen cooling *(optional)*	Light and air	Project-specific: to be coordinated
KIT-P8	Island power routing *(optional)*	Worktop and island	Project-specific: to be coordinated

Position	Dimension each point on the plan and from FFL against the actual worktop height and backsplash joints; the island's point is set per island.
Fit	Check the actual appliance, worktop, backsplash, sink and cabinet-module dimensions, so that no plate or connection sits behind fixed furniture or under equipment.
Use	Confirm reach at the worktop, which appliances run together, and where cables would trail across the work zone.
Service	Show how each appliance, driver and cooling connection is isolated, reached and replaced without removing fixed cabinetry; keep ventilation and service access clear.
Verification	Mark each point Proposed until the appointed electrical installation contractor has verified the arrangement. Appliance connections follow the selected model's installation instructions.

Bedroom

Coordinate with: Bed and mattress height, bedside furniture, wardrobe doors, mirrors, curtain pockets, airflow and sleeping positions.

Both sides of the bed are covered, and so is switching from the entry and from the bed.

ID	ITEM	EVERYDAY USE	REFERENCE
BED-C01	Bedside power and charging, left of the bed	Beside the bed	BED-01 700 mm
BED-C02	Bedside power and charging, right of the bed	Beside the bed	BED-01 700 mm
BED-C03	Entry light switching	Light	GEN-06 1400 mm
BED-C04	Bedside light switching, from the bed	Light	GEN-06 1400 mm
BED-P1	Reading lights	Light	Project-specific: to be coordinated
BED-P2	Wardrobe lighting	Light	Project-specific: to be coordinated
BED-P3	Dressing-table power	Dressing and desk	Project-specific: to be coordinated
BED-P4	Desk, TV and data points *(optional)*	Dressing and desk	GEN-02 1100 mm · LIV-02 950 mm
BED-C05	Air-conditioning	Air and curtains	GEN-03 2200 mm
BED-P5	Fan	Air and curtains	Project-specific: to be coordinated
BED-P6	Motorised curtains *(optional)*	Air and curtains	Project-specific: to be coordinated

Position	Dimension both bedsides, the entry and bedside switching, and each light on the plan and from FFL, against the bed and mattress height.
Fit	Check the bed, mattress, bedside furniture, wardrobe doors, mirrors and curtain pockets, so that no plate or switch is covered or struck by a door.
Use	Confirm reach from each side of the bed, switching from the entry and from the bed, glare at the sleeping positions and trailing charging cables.
Service	Show how drivers, air-conditioning and fan isolation and any curtain motor are reached and replaced, with airflow kept clear.
Verification	Mark each point Proposed until the appointed electrical installation contractor has verified the arrangement. Air-conditioning, fan and curtain-motor arrangements are the contractor's to verify.

Living room

Coordinate with: Final furniture layout, TV bracket and screen, console, cable routes, ceiling details, glare and maintenance access.

TV, seating, media and data, and layered lighting are coordinated together.

ID	ITEM	EVERYDAY USE	REFERENCE
LIV-C01	TV and media power and data	Screen and media	LIV-01 350 mm · LIV-02 950 mm
LIV-C02	Router and network equipment	Screen and media	LIV-03 1100 mm
LIV-P1	Seating-area charging	Seating and work	Project-specific: to be coordinated
LIV-C03	Floor and table lamps	Seating and work	GEN-01 350 mm
LIV-C04	Work corner *(optional)*	Seating and work	GEN-02 1100 mm
LIV-P2	General and accent lighting	Light	Project-specific: to be coordinated
LIV-C05	Air-conditioning	Air and curtains	GEN-03 2200 mm
LIV-P3	Fan	Air and curtains	Project-specific: to be coordinated
LIV-P4	Curtains and blinds *(optional)*	Air and curtains	Project-specific: to be coordinated

Position	Dimension the TV, media and data points, seating-area charging, lamp sockets and each lighting layer on the plan and from FFL, against the final furniture layout.
Fit	Check the TV bracket and screen, console, seating, cable routes and ceiling details, so that no plate or connection is hidden behind fixed furniture.
Use	Confirm reach from the seating, glare on the screen, trailing cables across walkways, and which media and work equipment run together.
Service	Show how the router, media equipment, drivers and air-conditioning isolation are reached and replaced, and how lamps and fittings are maintained.
Verification	Mark each point Proposed until the appointed electrical installation contractor has verified the arrangement. Network, media and lighting arrangements are verified alongside the power.

Bathroom

Coordinate with: Wet-area restrictions, basin and shower positions, mirror cabinet, ceiling, plumbing, equipment instructions and access.

Wet-area review before any point is confirmed. No height on this sheet implies permission to install an accessory there.

ID	ITEM	EVERYDAY USE	REFERENCE
BAT-C01	Mirror lighting	At the mirror	BAT-01 1200 mm
BAT-P1	Mirror demister *(optional)*	At the mirror	Project-specific: to be coordinated
BAT-C02	Shaver or toothbrush charging, where permitted	At the mirror	BAT-02 1200 mm
BAT-C03	Water heater and its isolation	Water and air	BAT-03 1400 mm · BAT-04 1400 mm
BAT-P2	Exhaust ventilation	Water and air	Project-specific: to be coordinated
BAT-P3	Powered toilet *(optional)*	Water and air	Project-specific: to be coordinated
BAT-P4	General and night lighting	Light	Project-specific: to be coordinated

Position	Do the wet-area review first. Only then dimension any point on the plan and from FFL; a height never implies a point may go there.
Fit	Check the basin and shower positions, mirror cabinet, ceiling, plumbing and the equipment's own dimensions and instructions.
Use	Confirm reach and switching, and what is used together, such as the mirror light, a demister and the exhaust fan.
Service	Show how the water heater, exhaust fan and mirror equipment can be isolated, reached and replaced.
Verification	Wet-area suitability, equipment selection and electrical protection need the appointed electrical contractor’s verification before any point is confirmed.

A height beside an item is its point's starting coordination datum, in millimetres; an item with no height is project-specific. Optional equipment appears only when selected. Electrical verification stays with the appropriately registered contractor; ELS+ delivery applies only to contracted works. Wet-area suitability, equipment selection and electrical protection need the appointed electrical contractor's verification before any bathroom point is confirmed.

Appliance load schedule

V1.4
mm, FFL → CL
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Tell us which appliances you use together, so their power requirements and positions can be coordinated before work starts.

RULES

1. Manufacturer-rated current takes precedence over an estimate.
2. An unknown value stays unknown. It is never shown as zero.
3. Rated input power only: cooling capacity and cooking output are not electrical input.
4. The voltage is the appliance's rated voltage, or unknown. ELS assumes none.
5. Estimated current is input watts ÷ voltage, for a single-phase load, assuming power factor 1. Motors, compressors and electronic equipment can need more information from the manufacturer.
6. A sum of currents is a connected-load estimate. It is not the home's maximum demand.
7. Appliance current, plug or fuse rating and circuit-breaker rating are different things. ELS sizes no cable, breaker, protection or circuit, and a low estimate does not show that a socket is suitable.
8. For lighting, record the driver's electrical input and the load it supports, and where the driver can be reached to replace it. Low-voltage LED output current is not mains input current.
9. Your inputs and the contractor's verification are kept apart. This page cannot mark anything contractor verified.

WHAT TO CAPTURE IN EACH ROOM

Kitchen	Hob, oven, microwave, kettle, coffee machine, dishwasher, fridge, hood, purifier, an optional disposer and countertop appliances.
Bedroom	Air-conditioning, fan, dressing appliances such as a hair dryer, desk equipment, TV, lighting and powered curtains.
Living room	Air-conditioning, fan, TV and media, computer or work corner, lighting, charging, and powered furniture or curtains.
Bathroom	Instant or storage water heater, ventilation, mirror demister, permitted grooming equipment and an optional powered toilet.

SPECIMEN LINES

KIT-C09

Point ID
KIT-C09

Appliance
Illustration only: a hypothetical appliance

Model and quantity
No model; quantity 1

Input power
2,300 W

Voltage
230 V

Phase
Single phase

Rated current
unknown

Estimated current
10.0 A (2,300 W ÷ 230 V; single phase, power factor 1 assumed)

Source or reference
The paper's own illustration, not a product

Connection requirement
Per the manufacturer's instructions; the contractor confirms

Simultaneous-use group
A

Verification status
Proposed

KIT-C03

Point ID
KIT-C03

Appliance
Fridge; model not chosen yet

Model and quantity
No model; quantity 1

Input power
unknown

Voltage
unknown

Phase
unknown

Rated current
unknown

Estimated current
unknown

Source or reference
From the selected product's nameplate or manual

Connection requirement
Per the manufacturer's instructions; the contractor confirms

Simultaneous-use group
B

Verification status
Proposed

Connected-load estimate (specimen): 10.0 A at 230 V (1 row). The second line has no current and no voltage, so it is not added and is not counted as zero.