Water inlets and outlets

This sheet provides ELS planning references. Final positions and plumbing arrangements must meet applicable Sarawak requirements and the selected fitting's installation instructions, verified by the appointed plumbing contractor.

This sheet does not establish statutory compliance, and a datum schedule alone is not a plumbing design or an approval. Verification of the plumbing arrangement stays with the appointed plumbing contractor.

HOW A POSITION IS MEASURED

Heights are measured from finished floor level (FFL) to the centre of the point. A distance from the wall is measured from the finished wall face to the centre of the outlet. Set FFL from the finished floor build-up, not the slab.

THE SCHEDULE BY USE

ID	POINT	REFERENCE (MM)	WHAT THE POSITION DEPENDS ON
LAUNDRY 1			
WD-01	**Washing machine water inlet**	**1100 mm above the floor** Water inlet	The selected machine's installation sheet governs the position.
BATHROOM 4			
WD-02	**Shower water inlet (the mixer's hot and cold connections)**	**1100 mm above the floor** Water inlet **150 mm apart** Hot and cold connections	The selected mixer's installation sheet governs the connection positions.
WD-03	**WC**	**400 mm from the wall** Waste outlet **300 mm above the floor** Water inlet	The set-out is fixed by the selected pan's installation sheet. A wall-hung pan needs its frame fixed before the wall is built.
WD-06	**Basin (vanity) water supply**	**550 mm above the floor** Water supply points	The selected basin and tap's installation sheet governs the position.
WD-07	**Basin (vanity) waste outlet**	**200 mm above the floor** Waste outlet	The selected vanity, basin and trap's installation sheets govern the position.
SUPPLY AND HEATING 2			
WD-04	**Water filter inlet**	**500 mm above the floor** Water inlet	The selected filter's installation sheet governs the position.
WD-05	**Water heater connections**	**2150 mm above the floor** Water connections	The height depends on the heater type and model. Its electrical isolator is on the electrical datum sheet.

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.

WD-P1 Kitchen sink water connections. The sink base holds the water connections. How they are reached for servicing or replacement is decided before the base is built.

WD-P2 Floor trap. The drainage location, and the waterproofing and tile build-up around it. The trap is chosen before the grate.

WD-P3 Wall-hung pan frame. A wall-hung pan needs its frame fixed before the wall is built, so the frame is placed to the selected pan's installation sheet.

WD-P4 Utility / mop sink connections. The selected sink's installation sheet fixes the position of its water connections.

WD-P5 Handheld bidet connection. The selected fitting's installation sheet fixes the position.

WD-P6 Outdoor tap. The selected tap's installation sheet fixes the position.

WD-P7 Water tank and pump connections. The selected tank and pump's installation sheets fix the position of their connections.

VERIFICATION STATUS

Every height and distance on this sheet is a starting reference. None has been verified by ELS against a selected product or on a site.

The schedule by space

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
No water point is named for this space.

Living Room
All four homes
No water point is named for this space.

Dining Room
All four homes
No water point is named for this space.

Kitchen and dry kitchen
All four homes
WD-04 Water filter inlet: 500 mm above the floor
WD-P1 Kitchen sink water connections: project-specific
WD-P2 Floor trap (in the apartment, the kitchen's own sink and floor trap): project-specific

Wet kitchen
Mid-terrace house, Semi-D, Bungalow (detached)
WD-P1 Kitchen sink water connections: project-specific
WD-P2 Floor trap: project-specific

Laundry / utility
All four homes
WD-01 Washing machine water inlet: 1100 mm above the floor
WD-P4 Utility / mop sink connections: project-specific
WD-P2 Floor trap: project-specific

Master bedroom
All four homes
No water point is named for this space.

Other bedrooms
All four homes
No water point is named for this space.

Bathrooms
All four homes
WD-02 Shower water inlet (the mixer's hot and cold connections): 1100 mm above the floor · 150 mm apart
WD-03 WC: 400 mm from the wall · 300 mm above the floor
WD-06 Basin (vanity) water supply: 550 mm above the floor
WD-07 Basin (vanity) waste outlet: 200 mm above the floor
WD-05 Water heater connections: 2150 mm above the floor (for the heater type selected)
WD-P5 Handheld bidet connection: project-specific
WD-P2 Floor trap: project-specific
WD-P3 Wall-hung pan frame (where a wall-hung pan is selected): project-specific

Staircase and landing
Mid-terrace house, Semi-D, Bungalow (detached)
No water point is named for this space.

Study and circulation areas
Bungalow (detached)
No water point is named for this space.

Balcony
All four homes
WD-P2 Floor trap: project-specific

Car porch, garden and outdoor
Mid-terrace house, Semi-D, Bungalow (detached)
WD-P6 Outdoor tap: project-specific

Gate
Mid-terrace house, Semi-D, Bungalow (detached)
No water point is named for this space.

Not tied to one space
Set per project. The home's own plan fixes where each sits.
WD-P7 Water tank and pump connections (where the home has one): project-specific