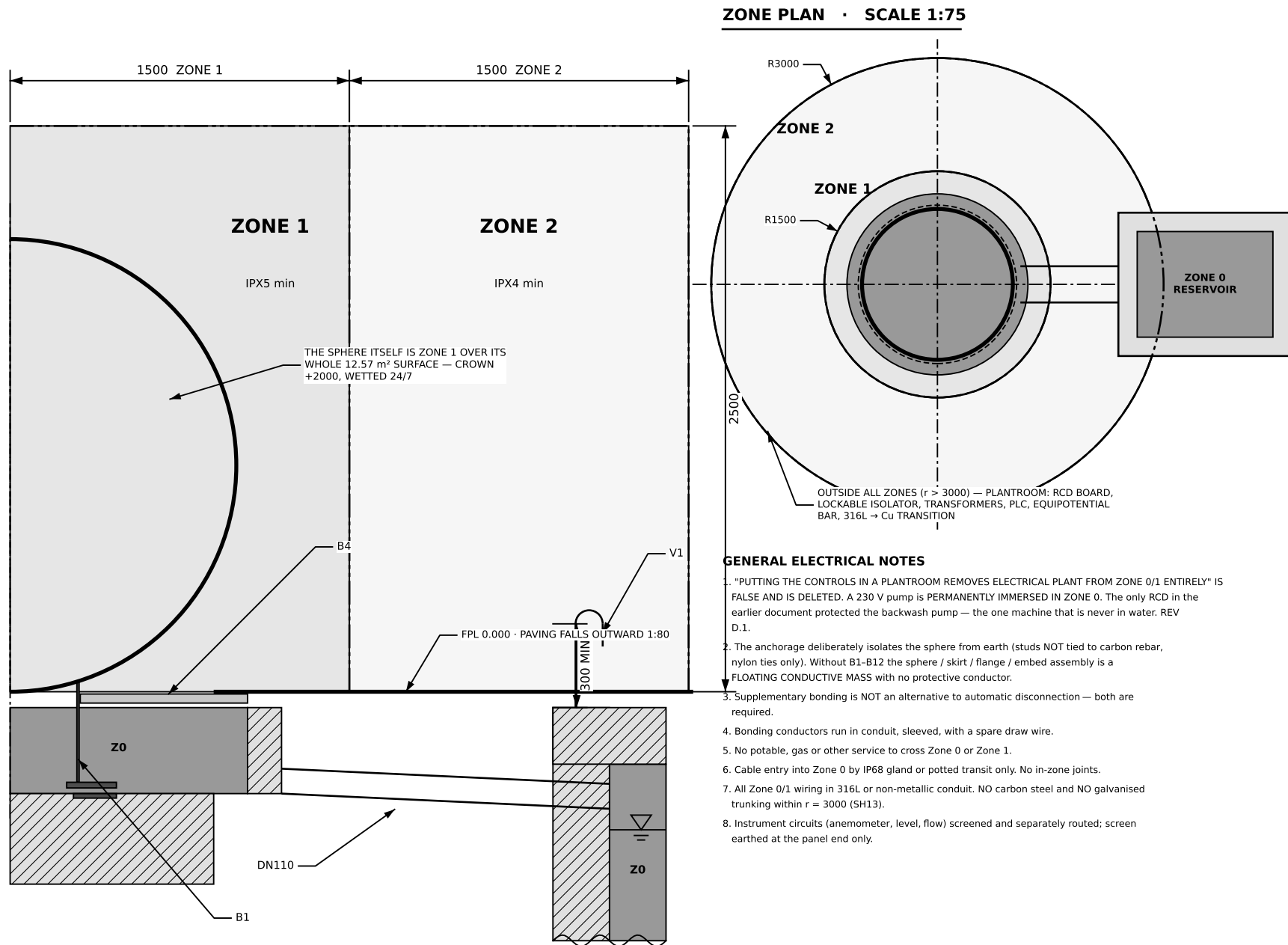


SECTION A-A — IEC 60364-7-702 / BS 7671 §702 ZONES · SCALE 1:25



- Z0 ZONE 0 — COLLECTOR CHAMBER VOID (FLOODABLE), THE ANCHORAGE PIT AT -450 AND THE RESERVOIR INTERIOR (TWL -610 PUMP RUNNING, STATIC -598, FLOOR -1700). IP68, SELV ≤12 V AC ONLY.
- B1 M8 CRC-V STUD-WELDED BONDING BOSS ON THE SKIRT ABOVE THE GROUT LINE (T30). B2 — SECOND BOSS ON THE RISER, IN THE CHAMBER.
- B4 PEBBLE-TRAY FRAME BONDS + THE ACCESSIBLE, LABELLED TEST POINT UNDER ONE LIFTING TRAY.
- DN110 GRAVITY RETURN @1:60, RUN ≤4 m, ARRIVAL INVERT -517, 81 mm AIR GAP TO THE STATIC LEVEL -598 (SH09). REV D.1.
- V1 DN50 316L VENT SWAN-NECK, +300 ABOVE FPL, ≤1 mm INSECT MESH.

ZONE DEFINITIONS AND IP RATINGS

ZONE	EXTENT (Rev D, dimensioned above)	MIN IP	PERMITTED EQUIPMENT
0	Reservoir interior, collector chamber	IP68	SELV ≤12 V AC only, one item per transformer;
	interior AND the anchorage pit at –450		transformer OUTSIDE Zone 1. IP67 is NOT accepted.
	— all three are floodable		The 230 V feature pump is IN Zone 0: IPX8, BS EN
			60335-2-41, dedicated 30 mA Type B RCBO.
1	r ≤ 1500 from the sphere axis, FPL 0.000	IPX5	SELV, or 30 mA RCD. NO socket outlets, NO
	→ +2500 — INCLUDING THE SPHERE ITSELF		switchgear, NO accessories. Fixed current-using
	and the pebble-tray deck		equipment only.
2	r 1500 → 3000, FPL 0.000 → +2500	IPX4	Fixed equipment on 30 mA RCD. IPX5 where jet-
	(Zone 1 + 1.5 m horizontally)	(IPX5*)	*washing of the deck is foreseeable.
—	r > 3000 — dry plantroom	IP54	All switchgear, transformers, lockable isolator,
			RCD board, PLC, equipotential bar, Cu transition.

ZONE 0 IS NOT ONLY THE RESERVOIR: THE COLLECTOR CHAMBER AND THE ANCHORAGE PIT FLOOD AND ARE ZONE 0 THROUGHOUT.

SPHERE, SKIRT, FLANGE, EMBED RING, RISER, TRAYS, COLLAR, COVER FRAMES AND PLANT BODIES ARE ALL BONDED — SEE THE SCHEDULE.

PROTECTION & ISOLATION SCHEDULE (IEC 60364-7-702 / BS 7671 §702)

REF	CIRCUIT / ITEM	PROTECTIVE PROVISION
E2.1	FEATURE PUMP — 230 V, PERMANENTLY	DEDICATED WAY, 30 mA TYPE B RCBO (INVERTER-FED — 531.3.3).
	IMMERSED IN ZONE 0	BS EN 60335-2-41, IPX8. Watertight cable
		transit with a puddle flange + internal drip loop
E2.2	Filtration / backwash pump — plantroom	30 mA Type B RCBO; own local isolator
E2.3	UV reactor + intensity sensor	30 mA Type B RCBO; interlocked to the pump
E2.4	NaOCl dosing pump, ORP + free-Cl	30 mA Type B RCBO
E2.5	PLC, level probes, anemometer	30 mA Type B RCBO
E2.6	Any luminaire in/on the sphere or in	SELV ≤12 V AC, ONE ITEM PER TRANSFORMER,
	the chamber (Zone 0 / Zone 1)	TRANSFORMER OUTSIDE ZONE 1
E2.7	Upstream of the fountain board	300 mA S-type (time-delayed) RCD
E7	Local isolation	LOCKABLE isolator at the plantroom board —
		LOTO point, labelled, adjacent to the RCD
E8	Lightning	IEC 62305 risk assessment — isolated large
		metal object + buried metallic system
A1a	Confined-space entry isolation	Padlockable local isolator at the hatch. The
	(feature pump, lighting, NaOCl	permit lists each item electrically AND
	dosing pump, UV reactor)	chemically isolated and LOCKED OFF.

SUPPLEMENTARY EQUIPOTENTIAL BONDING SCHEDULE (E4 / E5 — min 4 mm², 6 mm² SPECIFIED)

REF	ITEM BONDED	COND.	CONNECTION / LOCATION
B1	Sphere / skirt / base flange	6 mm² Cu	M8 CRC-V stud-weld boss, skirt above grout (T30)
B2	Riser DN80	6 mm² Cu	M8 CRC-V boss in the collector chamber
B3	Cast-in embed ring	6 mm² Cu	Duplex tab, cast in, above the grout line
B4	Pebble-tray frames (each segment)	6 mm² Cu	316L lug per segment → flying lead to ring main
B5	Inner tray support ring	6 mm² Cu	316L lug on the ring, in the chamber
B6	Reveal collar (both parts)	6 mm² Cu	Flexible bond to the inner tray frame
B7	Reservoir reinforcement	6 mm² Cu	Welded rebar tab cast in → terminal in chamber
B8	Cover frames + safety grille	6 mm² Cu	Frame lug + flexible bond to EACH cover leaf
B9	Pump / filter / UV / dosing bodies	6 mm² Cu	Manufacturer's bonding point, star to the bar
B10	Plantroom equipotential bar	16 mm² Cu	Labelled bar → MET; single collection point
B11	316L → Cu TRANSITION	bimetallic	PLANTROOM ONLY — DRY, r > 3000, OUTSIDE THE
			WET ZONE. No new galvanic couple (E5).
B12	Test point	—	Accessible under ONE lifting tray, labelled

HOLD POINT H10

**BONDING CONTINUITY <0.05 OHM TO BE MEASURED AND
RECORDED BEFORE THE PAVING IS CLOSED.
IT CANNOT BE RETROFITTED.**

Insulation resistance and 30 mA RCD trip testing at the same visit (C12).

REV	DATE	DESCRIPTION	BY
D	2026-08-05	CONCEALED SKIRT ANCHORAGE, RESERVOIR + PLANT, PEBBLE COLLECTOR	NX
E	2026-08-20	REV D.2 ALIGNMENT + VISUAL QA CORRECTIONS	NX
F	2026-09-03	LOGO ENGRAVING ADDED (SH15); SHEET COUNT 14 -> 15	NX
G	2026-09-05	AUDIT CLOSE-OUT: CART 082 FB, SLOT 24, 24 TRAYS, DN80	NX
G.2	2026-09-06	PART DRAWINGS SH30-38; SLOTS AZ22.5; DOUBLER R995	NX
G.3	2026-09-06	SH37 BRACKET, SH42 WELD MAP, P-16 BELLOW; IFF	NX

SPA FOUNTAIN — B7 SPA, MALDIVES

SPA-F-SH08 — ELECTRICAL ZONES AND BONDING

DRAWN: NaXief Eng.		CHECKED: NX 2026-09-06	APPROVED: I. NAZEEF 2026-09-06	STATUS: IFF REV G.3
DATE: 2026-09-06	REV: G.3	UNITS: mm	SCALE: AS NOTED	A3 · SHEET 8/25

ISSUED FOR FABRICATION — REV G.3 · HOLD POINTS PER SH42

