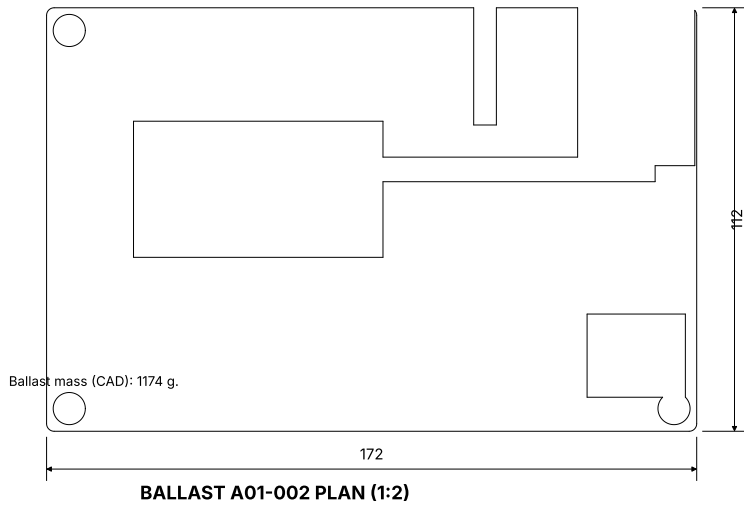
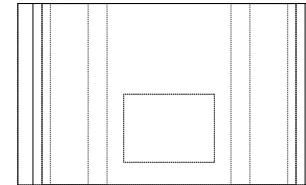
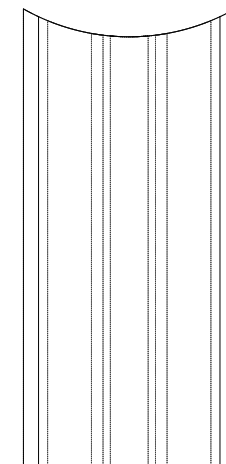
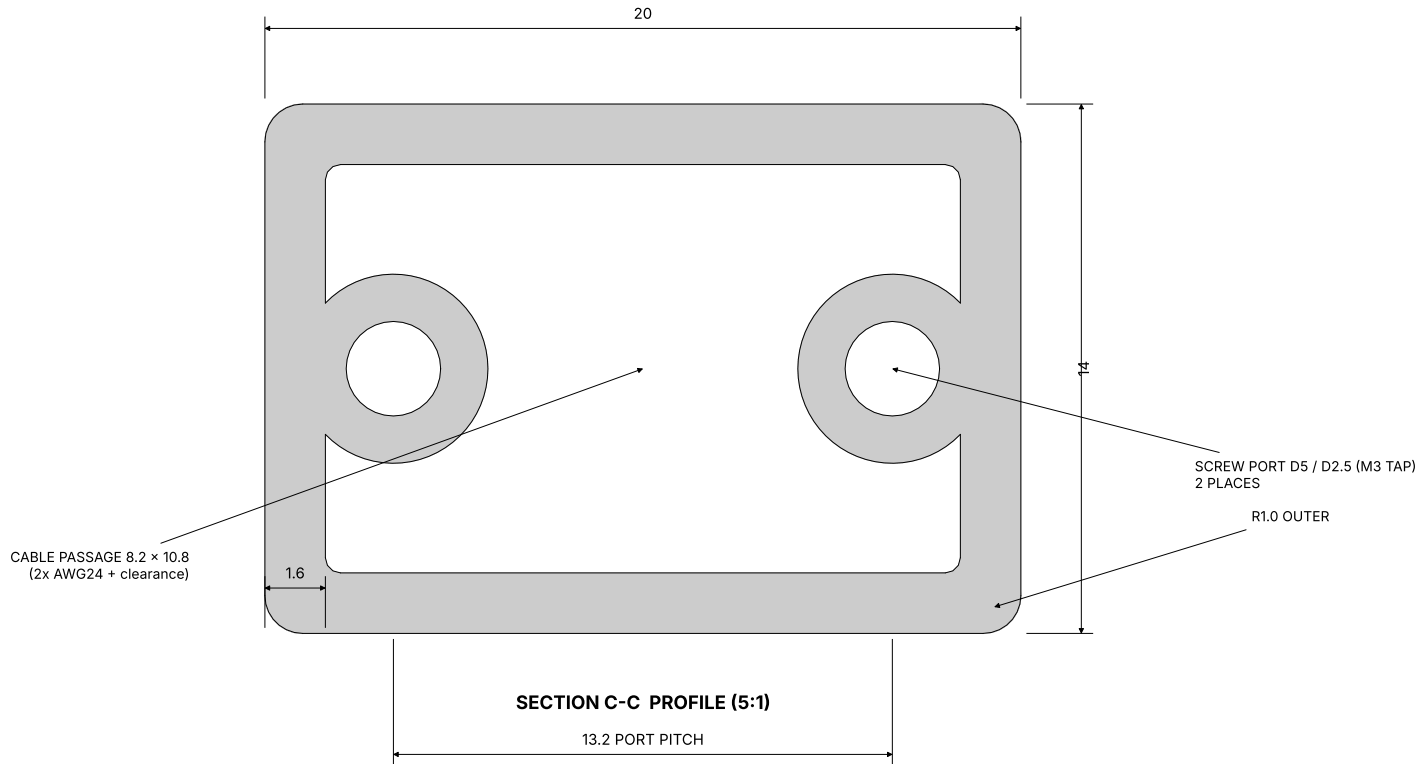
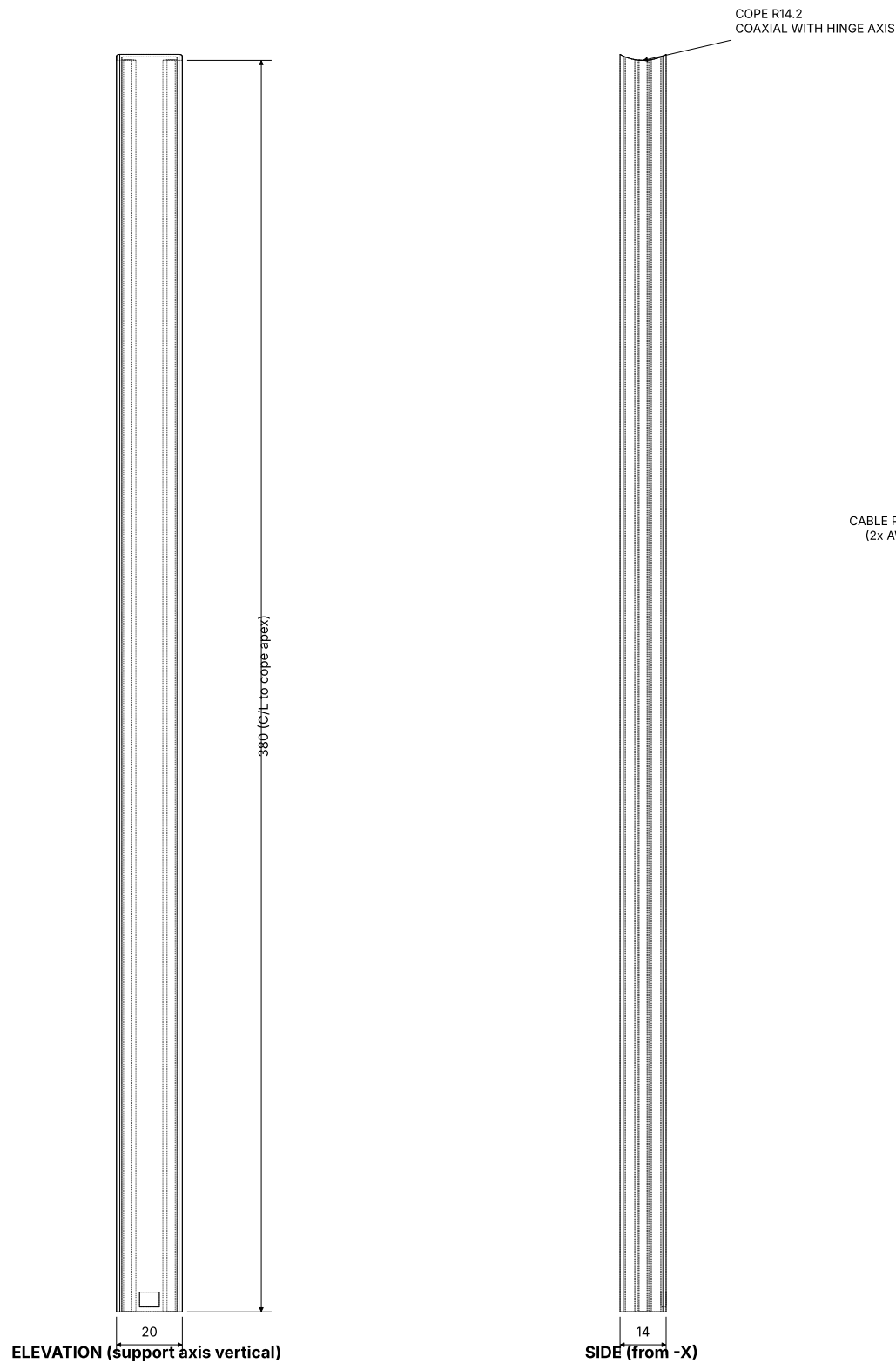




1. Support pocket machined at 5 deg about X (sine-plate setup or 4th axis); depth to pocket floor at centre 11.1.
2. Ballast: 10.5 mm laser-cut plate, through-features only (no milling). Clamped by the cover; 4x M3 ISO 10642.
3. Feet: silicone pads D10 × 2.1, PSA, in 1.0 deep pockets in cover. Contact edges define tipping lines.
4. Support retained by 2x M3x8 ISO 10642 into extrusion screw ports; accessible with cover removed.
5. Driver/encoder are envelopes only (PLACEHOLDER); final PCBs to fit sealed envelopes.

L01 ARCHITECTURAL TASK LIGHT				
BASE ASSEMBLY				
DRAWING No.	REV	SCALE	UNITS	PROJECTION
L01-ME-002	B	1:1 (ballast 1:2)	mm	1st angle (ISO E)
MATERIAL			FINISH	
A01-001 6061-T6 / A01-002 DC01 / A01-003 DC01			A01-001 clear anodise; A01-002/003 Zn-Ni (003 + black e-coat)	
GENERAL TOLERANCES ISO 2768-mK UNLESS STATED. BREAK SHARP EDGES 0.3. DIMENSIONS AFTER FINISH.				
DRAWN: Torin Etheridge 2026-10-08 CHECKED: — APPROVED: —				
STATUS: EVT-00 PRELIMINARY - NOT VALIDATED, NOT RELEASED FOR MANUFACTURE				

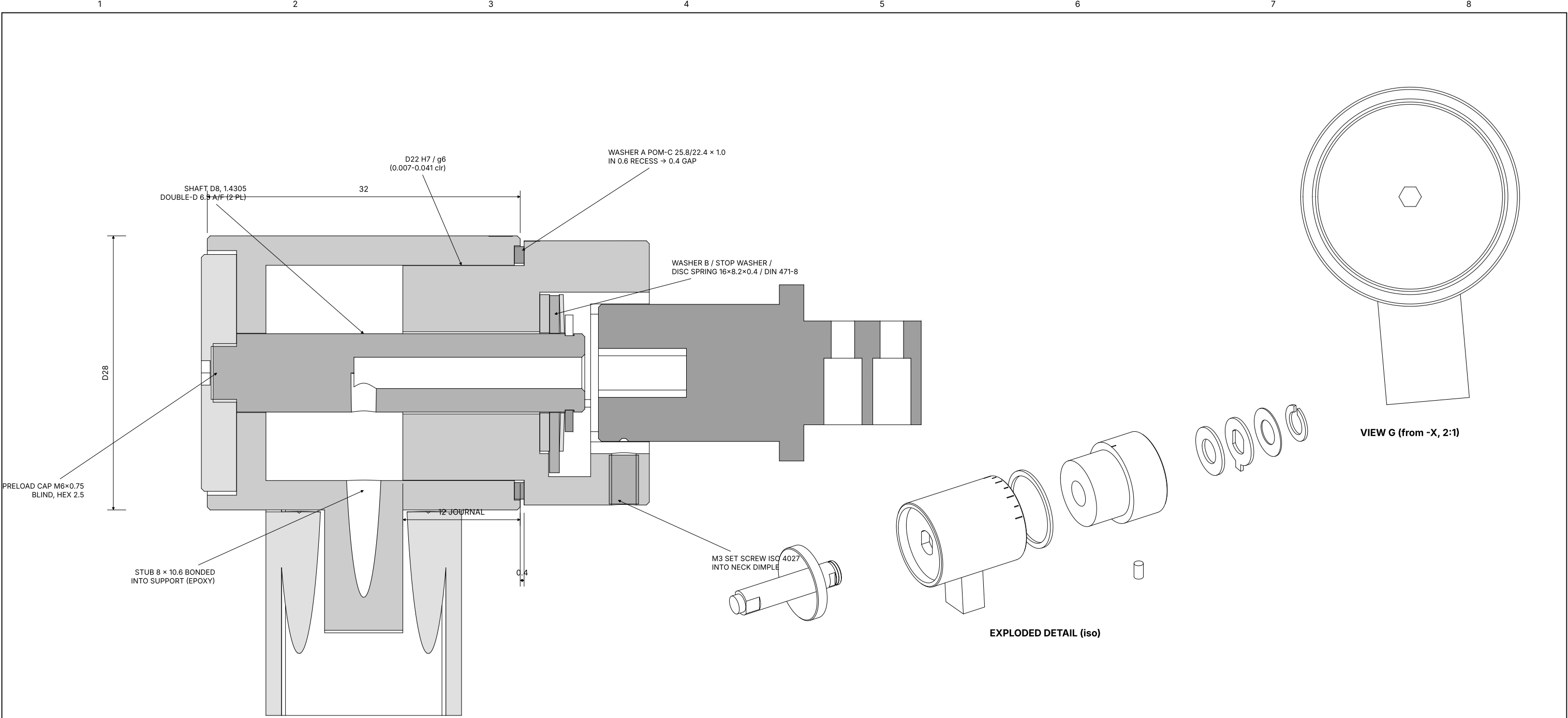
**NOTES**

- Profile tolerances per extruder (assumed +/-0.10, EN 755-9 class to be agreed).
- Length 380.0 +/-0.2 at centre-line (root face to cope apex). Root face square to axis within 0.1.
- Saddle cope R14.2 coaxial with hinge axis (0.2 gap to housing). Mill with 28.4 cutter path or hole saw.
- Ports: tap M3 × 6 deep at root end, 2 places. Top end bonded to housing stub (structural epoxy).
- Harness window 6 × 4.5 in -Y wall at root, inside base pocket (hidden in assembly).
- Section properties from CAD: A = 123.9 mm², I(head plane) = 6103 mm⁴, I(lateral) = 2830 mm⁴.

L01 ARCHITECTURAL TASK LIGHT

STRUCTURAL SUPPORT A02-001

DRAWING No.	REV	SCALE	UNITS	PROJECTION
L01-ME-003	B	1:2 / 5:1	mm	1st angle (ISO E)
MATERIAL			FINISH	
6061-T6 custom extrusion			Bead blast + clear anodise	
GENERAL TOLERANCES ISO 2768-mK UNLESS STATED. BREAK SHARP EDGES 0.3. DIMENSIONS AFTER FINISH.				
DRAWN: Torin Etheridge 2026-10-08 CHECKED: — APPROVED: —				
STATUS: EVT-00 PRELIMINARY - NOT VALIDATED, NOT RELEASED FOR MANUFACTURE				

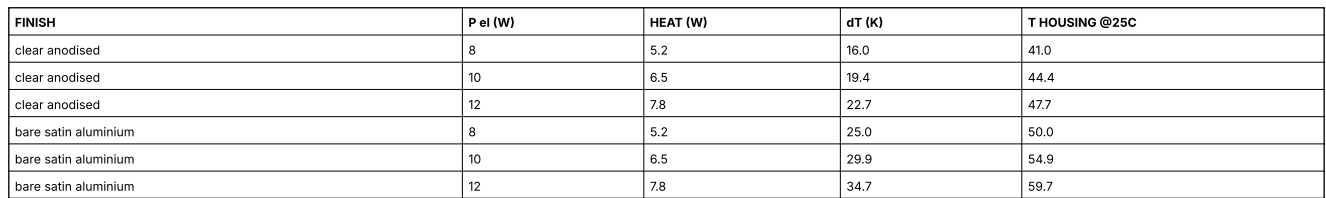
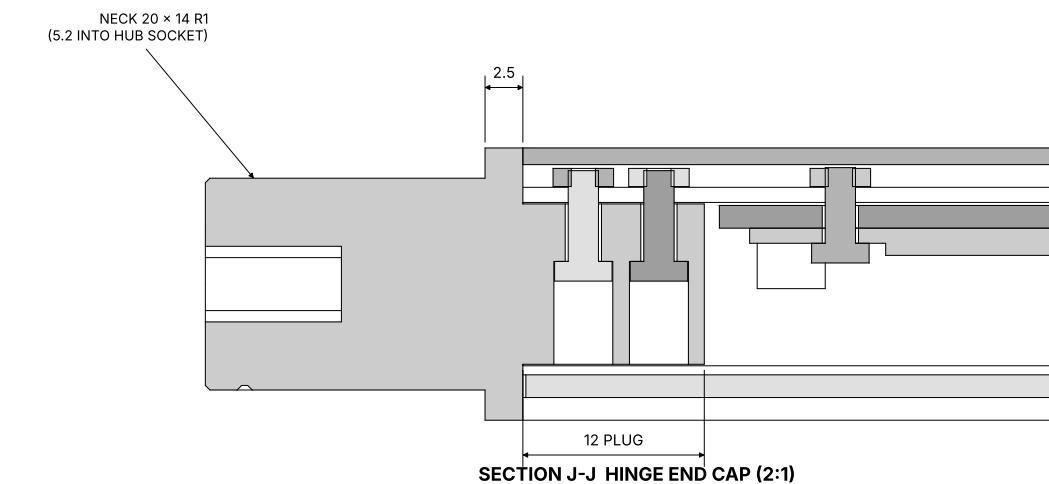


- NOTES**
- Roll joint coaxial with head. Hub journal D22 runs in housing bore; shaft is fixed (double-D) and carries the preload.
 - Preload loop: cap → housing → washer A → hub → washer B → stop washer → disc spring → circlip → shaft → cap.
 - Set torque on fixture: 0.30-0.45 N*m (target 0.35) by turning cap with 2.5 hex; shaft thread nylon patch.
 - Grease friction faces and journal with silicone damping grease (product not selected) ~ controls stick-slip.
 - Hard stops +/-60 deg: keyed stop-washer lug in hub sector pocket (verified in CAD at -62/-60/+60/+62 deg).
 - Wires: support stub hole D4 → chamber → shaft cross hole D2.6 → shaft bore D3.2 → neck passage.

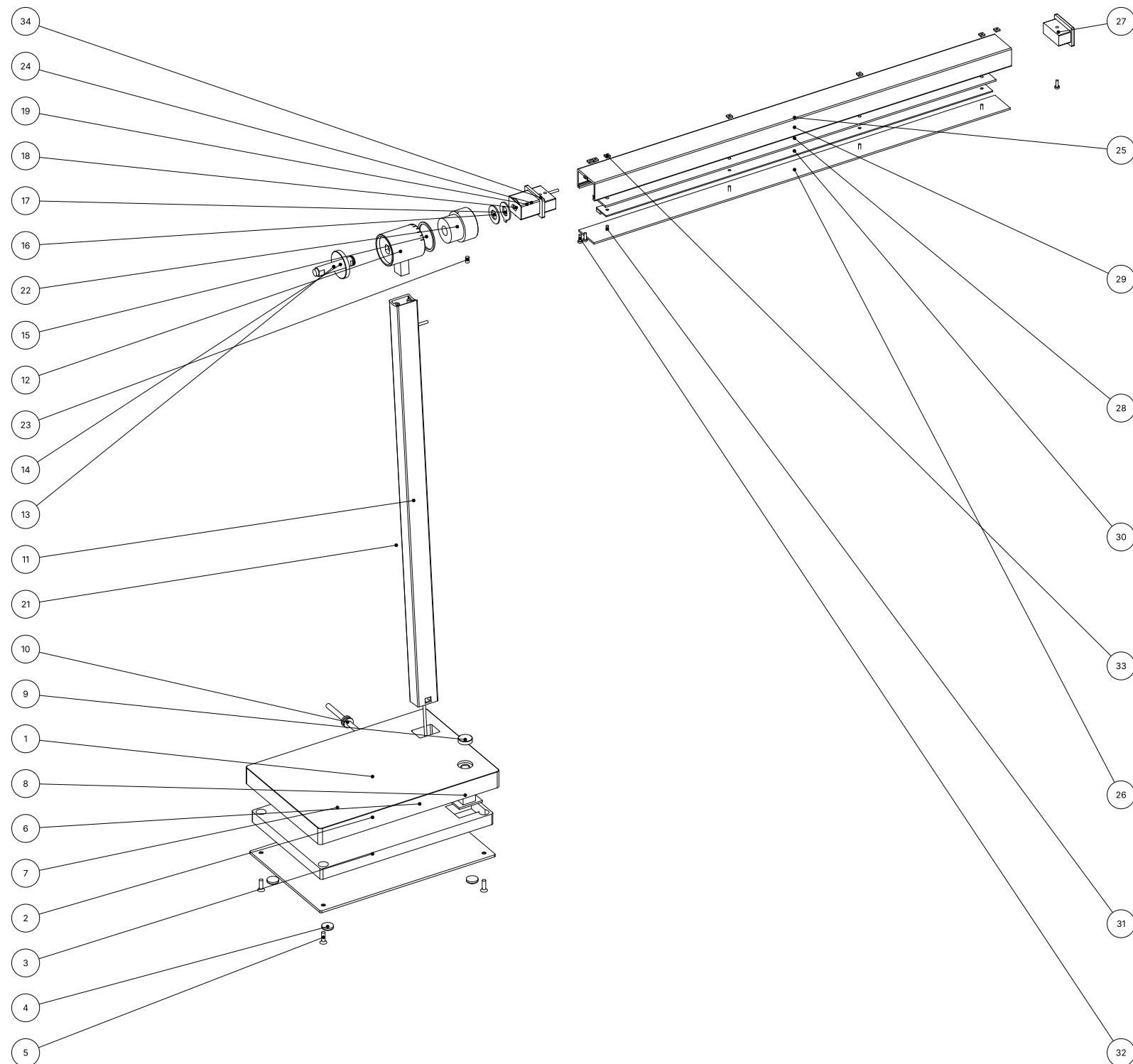
INTERFACE	SPEC	CLR / VALUE	NOTE
Housing bore / hub journal	D22 H7 / g6	0.007 / 0.041	running clearance
Shaft / hub bore	D8 h9 / D8.4	0.40 min	no contact (not a bearing)
Double-D shaft / end wall	6.50 0/-0.03 / 6.55 +0.03/0	0.05 / 0.11	anti-rotation
Washer A recess depth	0.60 +0.05/0	-	sets 0.4 gap
Disc spring working deflection	s = 0.375 (set by cap)	F = 154 N	flat region
Holding torque (mu 0.10 - 0.20)	0.28 - 0.57 N*m	target 0.35	verify on prototypes
Gravity roll torque at +/-60 deg	4.4 mN*m	-	CG 2.0 mm below axis

L01 ARCHITECTURAL TASK LIGHT
FRICTION HINGE ASSEMBLY A03

DRAWING No.	REV	SCALE	UNITS	PROJECTION
L01-ME-004	B	2.5:1 / 2:1	mm	1st angle (ISO E)
MATERIAL			FINISH	
A03-001/003/009 6061-T6, A03-002 1.4305, washers POM-C / 1.4310			Housing/cap clear anodise; hub journal hard anodise 25 um	
GENERAL TOLERANCES ISO 2768-mK UNLESS STATED. BREAK SHARP EDGES 0.3. DIMENSIONS AFTER FINISH.				
DRAWN: Torin Etheridge 2026-10-08 CHECKED: — APPROVED: —				
STATUS: EVT-00 PRELIMINARY - NOT VALIDATED, NOT RELEASED FOR MANUFACTURE				



1. Extrusion 415.0 +/-0.2; die radii R0.3 min on internal corners unless shown (agree with extruder).
2. Diffuser snaps past 0.6 ribs (0.3/side nominal interference); removable by flexing - not bonded.
3. LED module (carrier + MCPCB) fixed by 4x M2x5 into DIN 562 M2 square nuts in the spine channel.
4. End caps: plug 24.8 -0/-0.2; M2 screws from below into channel nuts (hidden above diffuser).
5. Thermal path: LED → MCPCB → carrier → 0.2 pad → spine (8 wide) → housing. Not validated by test.



#	PART No.	DESCRIPTION	MATERIAL	QTY	TYPE
1	L01-A01-001	Base upper housing	6061-T6	1	C
2	L01-A01-002	Ballast plate	DC01 steel	1	C
3	L01-A01-003	Bottom cover (steel, rev B)	DC01 steel	1	C
4	L01-A01-004	Silicone foot D10×2.1, PSA bonded	Silicone 50A	4	PH
5	L01-A01-005	Screw ISO 10642 M3×10 A2 (cover)	A2 stainless	4	P
6	L01-A01-006	Screw ISO 10642 M3×8 A2 (support)	A2 stainless	2	P
7	L01-A05-001	LED driver / MCU PCB (envelope)	FR4 PCB (placch	1	PH
8	L01-A05-002	Rotary encoder + board (envelope)	Encoder (placch	1	PH
9	L01-A01-007	Control knob D12	6061-T6	1	C
10	L01-A05-003	DC input cable + strain relief (en	Cable/wire (pla	1	PH
11	L01-A02-001	Vertical support	6061-T6	1	C
12	L01-A03-001	Hinge housing with support stub	6061-T6	1	C
13	L01-A03-002	Pivot shaft D8	1.4305 staines	1	C
14	L01-A03-003	Preload cap (M6×0.75, 2.5 hex)	6061-T6	1	C
15	L01-A03-004	Friction washer A 25.8/22.4×1	POM-C	1	C
16	L01-A03-005	Friction washer B 16/8.2×1	POM-C	1	C
17	L01-A03-006	Keyed stop washer (double-D, lug)	1.4310 spring s	1	C
18	L01-A03-007	Disc spring 16×8.2×0.4	1.4310 spring s	1	PH
19	L01-A03-008	Retaining ring DIN 471 - 8 × 0.8	1.4310 spring s	1	P
20	L01-A01-008	Structural epoxy (support/stub bon	-	1	P
21	L01-A05-004	Internal harness 2x AWG24 PTFE	Cable/wire (pla	1	PH
22	L01-A03-009	Rotating hub	6061-T6	1	C
23	L01-A03-010	Set screw ISO 4027 M3×5 A2	A2 stainless	1	P
24	L01-A04-005	Hinge end cap with neck	6061-T6	1	C
25	L01-A04-001	Head extrusion 415 mm	6063-T5	1	C
26	L01-A04-004	Opal diffuser 24.4×1.5	Opal PC	1	C
27	L01-A04-006	Free end cap	6061-T6	1	C
28	L01-A04-002	LED carrier 20×1.5	6063-T5	1	C
29	L01-A04-009	Thermal pad 8×0.2	Thermal pad	1	PH
30	L01-A04-003	LED PCB (MCPCB) 16×1.0	Al MCPCB (place	1	PH
31	L01-A04-007	Screw ISO 7045 M2×5 A2 (LED module	A2 stainless	4	P
32	L01-A04-008	Screw ISO 7045 M2×6 A2 (end caps)	A2 stainless	3	P
33	L01-A04-010	Square nut DIN 562 M2 A2	A2 stainless	7	P
34	L01-A05-005	Head harness tail	Cable/wire (pla	1	PH

TYPE: C custom, P purchased standard, PH placeholder (not selected). No supplier part numbers verified.

L01 ARCHITECTURAL TASK LIGHT

EXPLODED ASSEMBLY & BOM

DRAWING No.	REV	SCALE	UNITS	PROJECTION
L01-ME-006	B	~1:4	mm	1st angle (ISO E)
MATERIAL	FINISH			
See BOM	-			
GENERAL TOLERANCES ISO 2768-mK UNLESS STATED. BREAK SHARP EDGES 0.3. DIMENSIONS AFTER FINISH.				
DRAWN: Torin Etheridge 2026-10-08 CHECKED: — APPROVED: —				
STATUS: EVT-00 PRELIMINARY - NOT VALIDATED, NOT RELEASED FOR MANUFACTURE				

NOTES

1. Explode directions follow assembly order: base parts drop along -Z, support/hinge along support axis, head along +X.
2. Balloon numbers = BOM item numbers. Quantities verified against CAD instances (51).