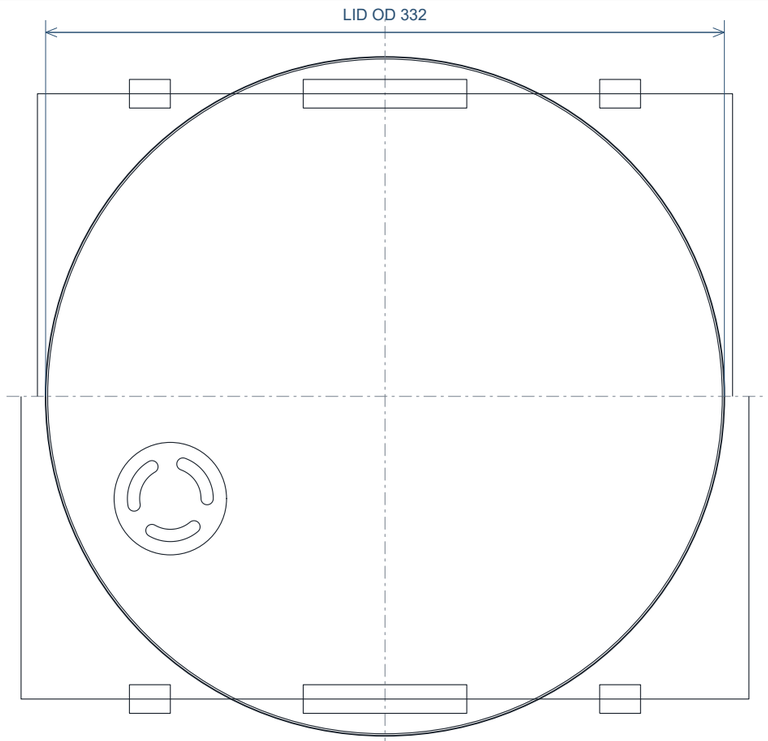
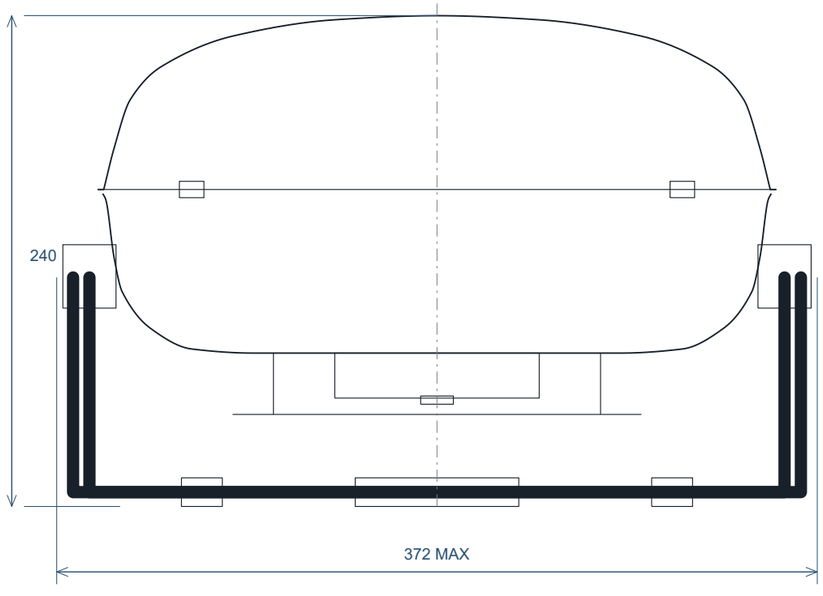


TOP



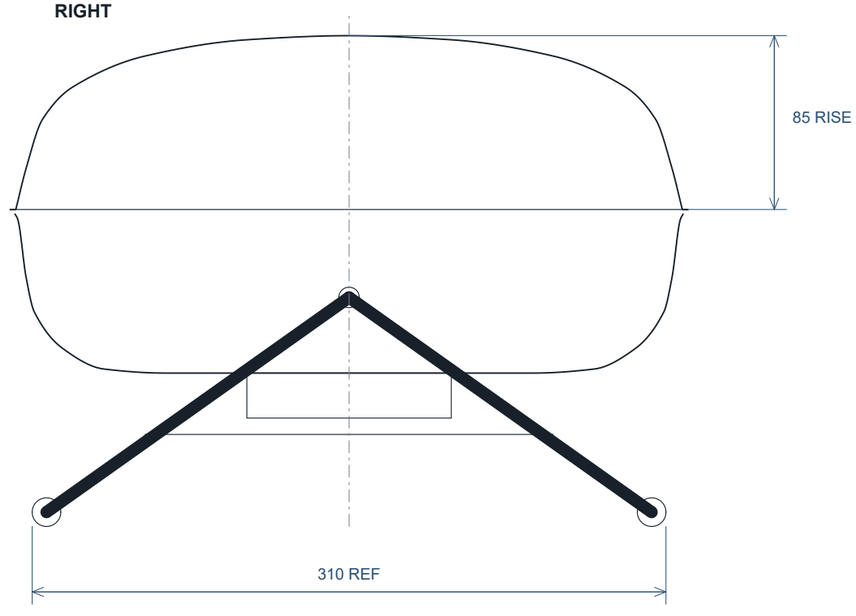
FRONT

CONTROL ITEM	REV B NOMINAL / mm
Bowl OD / lid OD	330 / 332
Bowl depth / lid rise	80 / 85
Closed height, support frames deployed	Approx. 240
Food / charcoal grate top	Z150 / Z95
Raised frame top, relative to deployed Z0	Approx. 300
Stowed height / maximum width	Approx. 209 / 372
Bowl and lid enamel	Same white, inside and outside

User-confirmed: the two U-frames support the grill when deployed and flip up to form the carrying grip. The separate bail and fixed lid-top handle are removed. Bowl and lid use the same white enamel inside and outside.

Width and envelopes include provisional pivot mounts. The profiles are design targets, not measurements of existing factory moulds; mould reuse remains to be checked.

RIGHT



Shallow bowl and grate sizes retained.

Frames, pivots and operation revised.

Bottom: air intake. Top: exhaust.

STATUS: CONCEPT / FACTORY REVIEW

3D visualization included; mechanical CAD and sample validation pending.

Do not scale renders. Fits and manufacturing tolerances are not released.

UNITS: mm / A3 LANDSCAPE

SCALE: 1:3 / details schematic

THIRD ANGLE

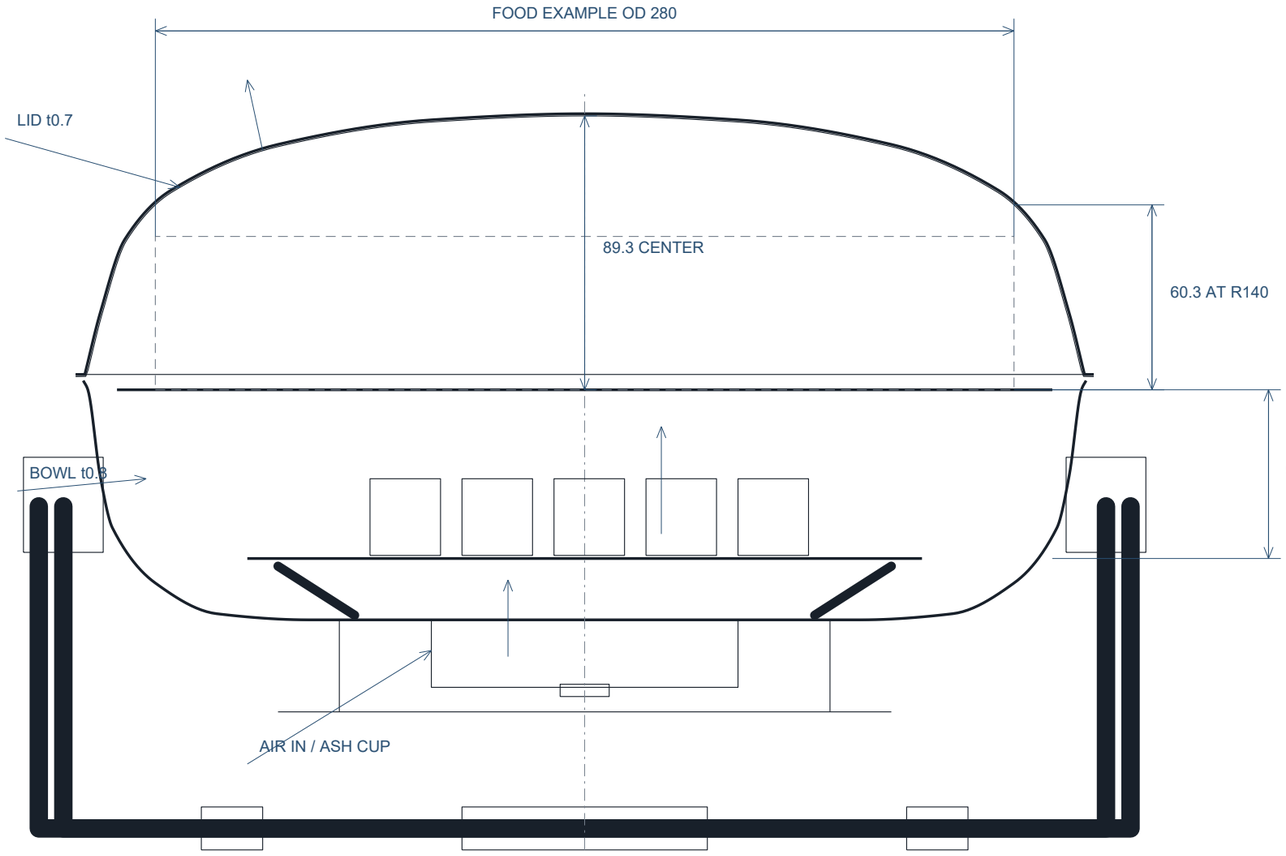
DESIGN 2026-11-02 / EN 11-03

DRAWING: EL-01

SHEET 1 OF 5

A-A INTERNAL ARRANGEMENT

Dashed outline: D280 x H50 food-space example on the Z150 grate. This is not a rated cooking capacity.



For the nominal profile, the D280 x H50 cylinder has 10.3 mm minimum vertical space above it. Enamel, deformation, assembly variation and food shape are excluded.

Airflow: ash-cup side ports > bowl-bottom holes > charcoal > lid exhaust. Grate-top separation remains 55 mm.

CLOSED-LID SPACE	VALUE / mm
Rev A lid rise	32
Rev B lid rise	85
Central headroom	89.3
Headroom at R140	60.3
Food-example height	50

LID OUTER PROFILE CONTROL POINTS

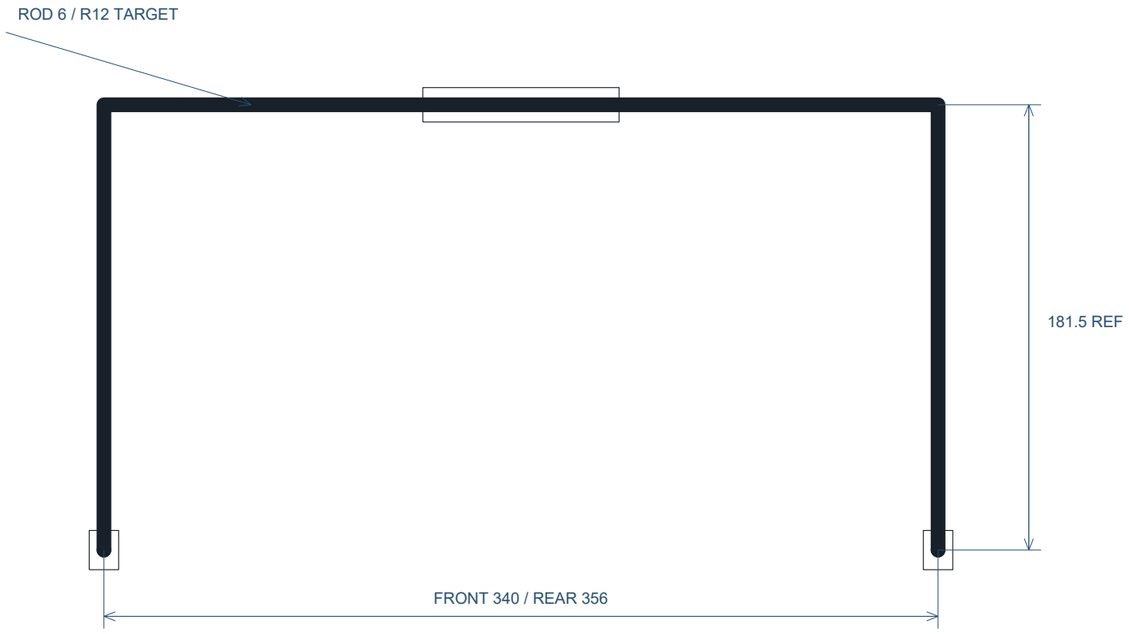
RADIUS R	HEIGHT Z
0	240
50	238
100	230
135	215
150	199
158	175
163	155
166	155 (rim)

Origin: deployed support plane. R is the radius of revolution. Use smooth transitions between control points; nominal normal wall thickness is 0.7. Factory to define draw radii, draft, springback and enamel allowances.

Mould reuse: check rim fit, depth and inner profile while preserving food space. If an existing lid still contacts food, select a deeper lid mould or review a revised solution; visual similarity alone is insufficient.

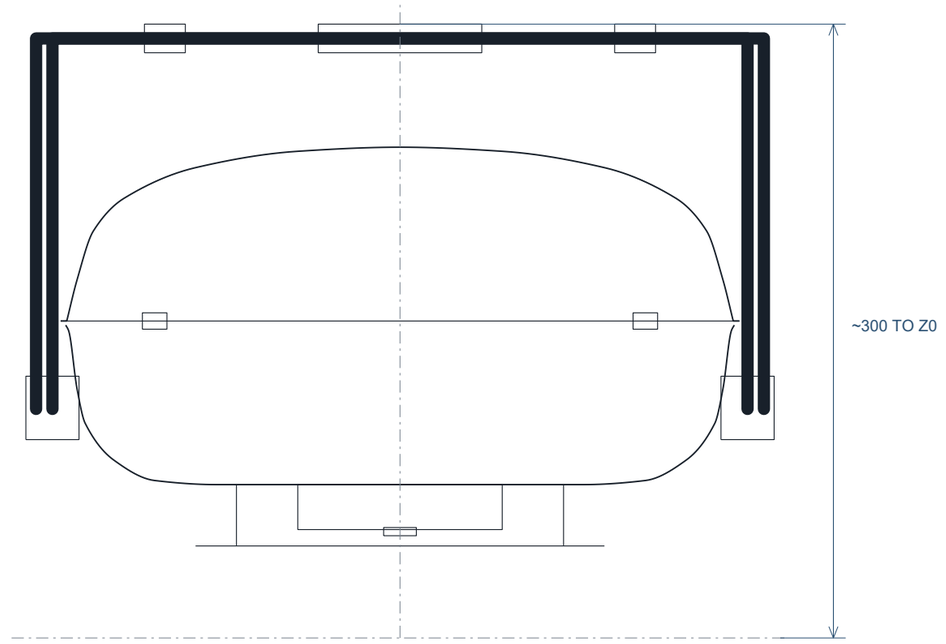
Hot lid: provide and trial a purchased rim-clamp lifter. The vent and transport frames are not hot-lid handles.

06 U-FRAME / CENTRELINE PLANE VIEW



Axial offset between frames: 8. Front half-span 170; rear half-span 178. Rod D6. Combined foot/grip sleeves: OD14 x L80. The 3D bends are rounded; this schematic is not a cutting-length development.

SUSPENDED CARRYING POSE

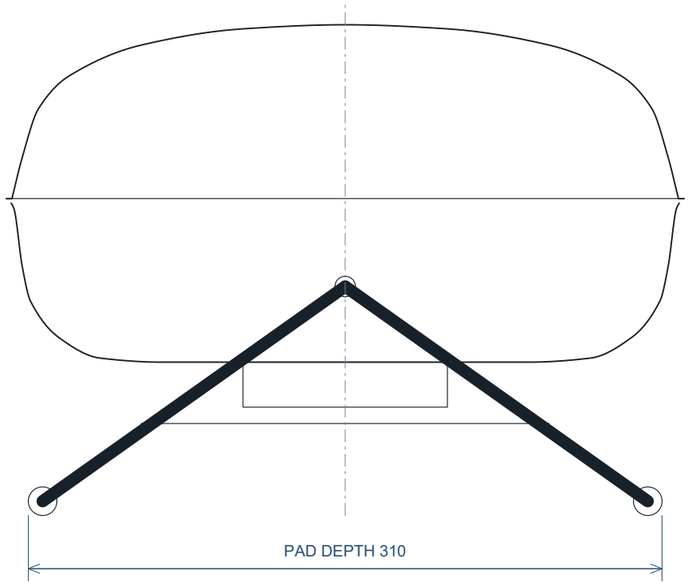


Suspended pose; Z0 remains the deployed datum. Each frame rotates up about 122.2 deg. Raised grip centres are 20 apart; sleeve undersides are about 46 above the lid crown.

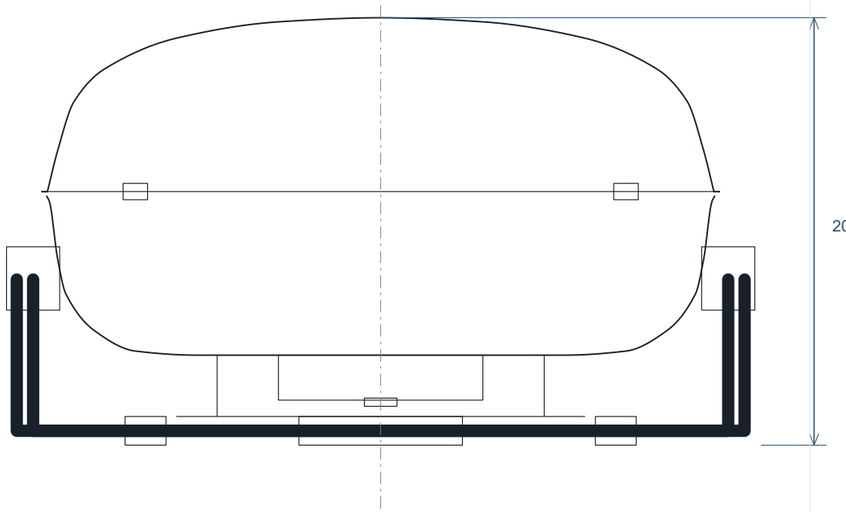
Operation target: both deployed frames bear against rigid stops and have independent locks. After complete cooling, ash removal and lid latching, support the cold body while raising each frame. Join and retain the grips before lifting. Raised frames provide no resting support; restore and lock both legs before setting down.

Factory to complete: pre-enamel welded mounts with inner reinforcement; short coaxial pin stack; deployed/stowed/carry retention; independent anti-fold locks; grip coupling and load tests. Lock blocks in the model indicate required locations only; they are not finished mechanisms.

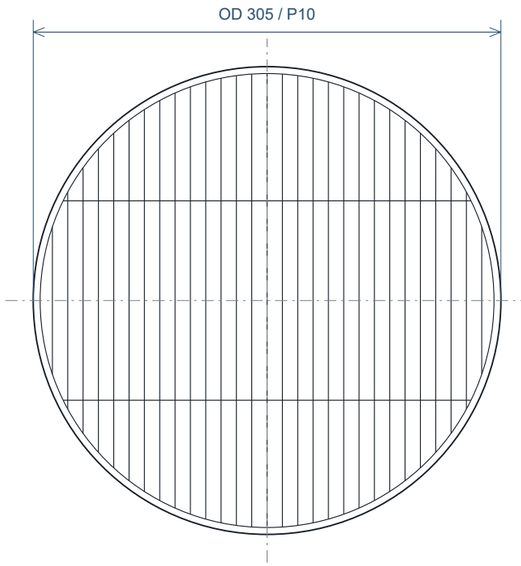
DEPLOYED



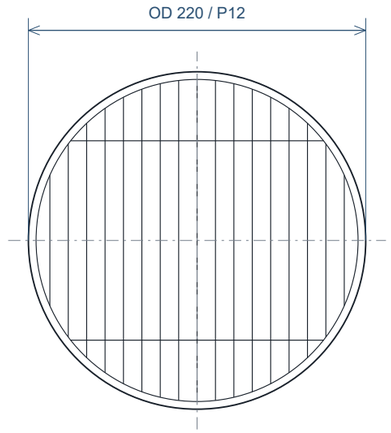
STOWED



FOOD GRATE / D305



CHARCOAL GRATE / D220



Pivot axis along X at Z112. Deployed rail centres: Y +/-148, Z7. Stow rotation about 11.3 deg: rail centres Y +/-165.7, Z38; pad underside Z31. Stowed envelope approximately 372 x 346 x 209.

Support-pad centres: X +/-115, Y +/-148. Deployed contact envelope about 250 x 310. Rigid stops and independent anti-fold locks are required for both frames. Raised-grip coupling remains to be engineered.

Retained lower module: ash cup D100 x 22, bottom Z53; local reflector D200, top Z45. Validate cup removal, frame movement, locks and stability on a complete sample. Longer frames do not imply unchanged product weight.

Initial charcoal-bed trial thickness remains no more than 25 mm; rated fuel load is not defined. Outdoor use on a stable heat-resistant surface only. Cool completely before stowing, latching and carrying.

Food wire D3.5 / ring D4.5. Charcoal wire D4 / ring D5.

FACTORY FEEDBACK	REV B RESPONSE	FACTORY TO CONFIRM
Shallow lid hits food	Lid rise 85; D280 x H50 space example added	Hot clearance, rim fit and deep-drawing feasibility
Single enamel colour	Bowl and lid: same white inside and outside	Approve white sample; no black-inside/white-outside split
Remove both handles	User confirmed: legs flip up and meet as the carry grip	Frame stack, retention, independent locks and grip coupling
Tooling about RMB 40,000	Record factory estimate; obtain existing mould dimensions first	Scope, tax/freight, trials, alterations, lead time and reuse savings
Bottom looks like exhaust	Label bottom ash cup as intake; lid as exhaust	Airflow, leaks, ash blockage and actual firing behaviour

NO.	PART / QTY	NOMINAL MATERIAL	REV B ACTION	ENGINEERING STATUS
01	Bowl / 1	Enamelling steel t0.8	White inside and outside	Profile retained; enamel allowance pending
02	Raised lid / 1	Enamelling steel t0.7	Rise 85; same white both sides	Prefer a suitable existing deep-lid mould
03	Fixed lid-top handle / 0	Removed	No fixed lid-top handle	Trial a purchased rim-clamp lid lifter
04	Food grate / 1	304 wire D3.5 / ring D4.5	Retain D305	Confirm food-contact suitability
05	Charcoal grate / 1	Heat-resistant wire D4 / D5	Retain D220; three feet	Validate thermal distortion and durability
06	Dual-use U-frames / 2	304 solid rod D6	Support, stow and flip-up carry	Stops, separate locks and grip coupling pending
07	Separate carry bail / 0	Removed	Carry function integrated in legs	Select heat-rated foot/grip sleeve material
08	Lid exhaust / 1 set	304 sheet t0.6	Move to new lid slope	Finalize openings, rotor fit and retention
09	Intake ash cup / 1 set	304 sheet t0.6	Retain D100 x 22	Check bayonet fit and removal path
10	Local reflector / 1 set	304 sheet t0.5	Retain D200 and four hangers	Validate temperature and moving clearances
11	Side pivots / 2 sets	Stainless sheet t1.5-2	Coaxial short pins at Z112	Detail backing, welds and locks
12	Transport clips / 2	Stainless spring strip	Cold transport only	Validate retention force and durability

EXISTING-MOULD CHECK INPUTS

Factory to return: bowl/lid mould diameters, inner sections, lid depth, rolled-rim fit, usable sheet gauges, enamel sample, original pivot/hole positions, and trial/alteration costs. Preserve food clearance before deciding on mould reuse or a new lid tool. Current geometry does not imply an available matching mould.

Status: factory-feedback revision for nominal-geometry review. Blender is mesh/curve visualization; DXF contains editable 2D entities. Complete mechanical CAD, tolerances, thermal and load validation before tooling release.