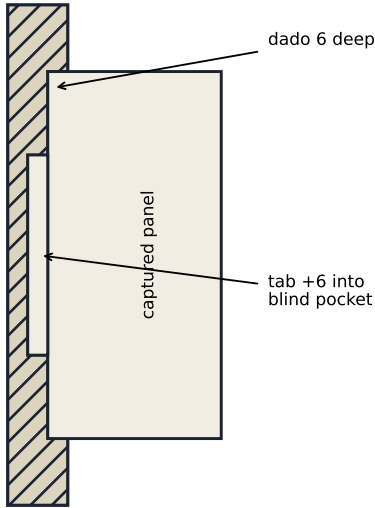


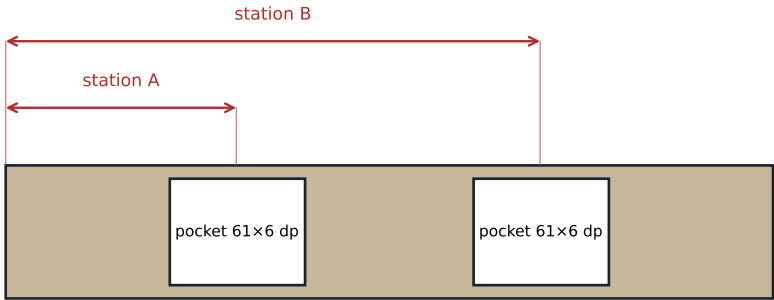
SCOPE OF WORK — CNC LOCKING FLAT-PACK Cut, machine, and label 52 plywood panels per this package: panel profiles WITH LOCKING TABS (pages 2, 3), rabbets, dados & blind pockets (pages 2, 4, 5), driver bores and rebates, amp cutouts, brace windows, dowel registration (pages 6, 7, 10). Deliver flat-packed, labeled, ready for glue-and-drop owner assembly.	MATERIAL 18 mm Baltic birch plywood, B/BB or better, exterior-grade glue, void-free faces, all panels from ONE lot. Sheets must be flat. Quantity: 5 sheets 1525 x 1525 (5'x5') per suggested nesting, page 8. Shop may re-nest; GRAIN DIRECTION IS FREE on all panels.																												
NOT IN SCOPE (owner performs) • All assembly and glue-up • Baffle lamination (outer baffles are LOOSE panels; do NOT bond to carcass parts) • EXTERNAL edge roundovers (owner, after assembly/lamination — see p.5 edge spec) • Driver mounting screw holes / inserts • Connector MOUNTING screw holes • Damping, wiring, finish (Connector PASS-THROUGH holes and the logo engraving ARE in scope — page 9)	CRITICAL STOCK-THICKNESS RULE Nominal 18 mm birch runs 17.6-18.2 actual. • Measure the lot; cut ALL dados and rabbets to ACTUAL thickness +0.1 / -0.0 for a snug slip fit. • Rebate DEPTHS (driver flanges) are set from the physical hardware, not this drawing.																												
VERIFICATION HARDWARE (supplied by owner with this package — machine nothing marked [VERIFY] until checked against these) <table><tr><td>1x W024P-4 woofer</td><td>1x Hypex FA123 amp</td></tr><tr><td>1x MR13P-4 midrange</td><td>1x Hypex FA501 amp</td></tr><tr><td>1x TW29BNWG-4 tweeter</td><td></td></tr><tr><td>1x SB34SWPL76-4 sub</td><td></td></tr><tr><td>1x NL4 round chassis connector</td><td></td></tr></table>+ Hypex mechanical drawings (PDF), both amps, and badge artwork kr-creation-badge.svg + 21-file DXF set (layer key in README)	1x W024P-4 woofer	1x Hypex FA123 amp	1x MR13P-4 midrange	1x Hypex FA501 amp	1x TW29BNWG-4 tweeter		1x SB34SWPL76-4 sub		1x NL4 round chassis connector		TOLERANCES <table><tr><td>panel length/width</td><td>..... ± 0.5</td></tr><tr><td>squareness (diagonals)</td><td>..... ± 0.7 / m</td></tr><tr><td>bore diameters</td><td>..... ± 0.5</td></tr><tr><td>bore/cutout position</td><td>..... ± 1.0</td></tr><tr><td>rebate diameter</td><td>..... +0.5 / -0</td></tr><tr><td>rebate depth: flange flush</td><td>... +0 / -0.2</td></tr><tr><td>dado position</td><td>..... ± 0.5</td></tr><tr><td>brace windows (page 7)</td><td>..... ± 5.0</td></tr><tr><td>engraving depth</td><td>..... 1.5 max</td></tr></table>	panel length/width	 ± 0.5	squareness (diagonals)	 ± 0.7 / m	bore diameters	 ± 0.5	bore/cutout position	 ± 1.0	rebate diameter	 +0.5 / -0	rebate depth: flange flush	... +0 / -0.2	dado position	 ± 0.5	brace windows (page 7)	 ± 5.0	engraving depth	 1.5 max
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IMPORTANT — SUPERSEDES PRIOR DRAWINGS This package uses 6 mm dado + locking-tab joinery; several panel widths differ from earlier revisions. THIS PACKAGE GOVERNS for these six cabinets.	DELIVERABLES 52 panels, each with its ID ENGRAVED in the lower-left of its hidden face (spec, page 3) — the engraving encodes orientation and hand; no other marking needed. Flat-packed, machined faces protected.																												

- SYSTEM: the two SIDE panels of every box host ALL joinery. Every captured panel edge sits in a continuous rabbet/dado 6 deep (air seal + capture) AND carries TWO LOCKING TABS that drop into BLIND POCKETS milled 6.5 deeper in the rabbet/dado floor (12.5 total; 5.5 of side wall remains — nothing shows outside; tabs never bottom: the panel edge on the dado floor is the seating reference). Tabs positionally lock every panel: the carcass self-squares and cannot slide during
- TAB: 60 long x 6 proud beyond the dado floor, corners R4. Two per engaged edge, centered at the STATION dimensions on page 4 (all stations symmetric about panel centerlines — captured panels are flippable end-for-end). SIDES ARE HANDED: pockets/rabbets are one-sided, so cut 1 LH + 1 RH (mirrored program) per box — the engraved ID (page 3) carries the hand.
 - POCKET: 72 long x (lot-max stock +0.1/-0.0) wide x 6.5 deep, milled in the rabbet/dado floor at the stations; end radii ≤ R3 (6 mm tool). Pockets are elongated +6 per side to swallow the TAB-ROOT FILLETS the profile tool leaves at each internal corner — root fillets ≤ R6 are BY DESIGN; do NOT dogbone the roots. Profile tool ≤ Ø10.
 - FIT: tabs LOCATE, they do not retain. Measure stock thickness at 4+ points across the LOT; key dado/pocket width to the LOT MAXIMUM +0.1/-0. Acceptable fit anywhere in the lot: easy slip to 0.3 clearance — glue fills. Ply thickness varies more than machine tolerance; this window absorbs it. NO press fits in plywood.
 - Captured panels are therefore +12 wider overall than Rev C across the tabbed dimension; page 3 gives BLANK (bounding) sizes. Sides and outer baffles are unchanged.
 - SEALED-BOX RULE: all pockets BLIND. No through-mortises anywhere; every joint gets glue at assembly (the glue is the air seal, not just the fastener).

6 wall remains
(outside face below)



SECTION THROUGH A TAB STATION



DADO FACE VIEW — pockets at the two stations (page 4)

Panel Schedule — 52 Panels

tabulated • all dims mm • 18mm Baltic birch • REV L

ID	PANEL	SIZE (mm)	QTY	MACHINING (detail page)

BASS CABINET (2 boxes; external		320 x 900 x 400)		
BA	side (2 LH + 2 RH)	900 x 382	4	end rabbets, front+rear rabbets, 3 through dados (p.4)
BB-t	top [tabbed]	308 x 382	2	Ø24 umbilical pass-through [VERIFY] (p.9)
BB-b	bottom [tabbed]	308 x 382	2	none
BC-i	inner baffle [tabbed]	308 x 864	2	bore Ø232 (p.6); 4 dowel pockets (p.10)
BC-b	back [tabbed]	308 x 864	2	FA123 cutout [VERIFY] (p.6); Ø90 badge, OUTSIDE face (p.9)
BE	outer baffle — LOOSE	320 x 900	2	bore Ø222 + rebate [VERIFY] (p.6); 4 dowel pockets (p.10)
BF	brace [tabbed]	308 x 346	6	2 windows (p.7)

HEAD UNIT (2 boxes; external		210 x 380 x 280)		
HA	side (2 LH + 2 RH)	380 x 262	4	end rabbets, front+rear rabbets (p.5)
HB	top / bottom [tabbed]	198 x 262	4	none
HC-i	inner baffle [tabbed]	198 x 344	2	bores Ø134 + Ø160 (p.6); 4 dowel pkts (p.10)
HC-b	back [tabbed]	198 x 344	2	Ø24 NL4 hole [VERIFY]; Ø60 badge, OUTSIDE face (p.9)
HE	outer baffle — LOOSE	210 x 380	2	bores Ø124 + Ø150 + rebates [VERIFY] (p.6); 4 dowel pockets (p.10)

SUBWOOFER (2 boxes; external		420 x 420 x 500)		
J	side (2 LH + 2 RH)	420 x 482	4	end rabbets, front+rear rabbets, 2 through dados (p.4)
K	top / bottom [tabbed]	408 x 482	4	none
L	inner baffle [tabbed]	408 x 384	2	bore Ø334 (p.6); 4 dowel pockets (p.10)
M	back [tabbed]	408 x 384	2	FA501 cutout [VERIFY] (p.6); text engraving, OUTSIDE face (p.9)
P	brace [tabbed]	408 x 384	4	Ø200 bore + 4 windows (p.7)
N	outer baffle — LOOSE	420 x 420	2	bore Ø325 + rebate [VERIFY] (p.6); 4 dowel pockets (p.10)

PANEL ID ENGRAVING (every panel — the IKEA rule, machined): engrave the panel ID in the LOWER-LEFT corner of the INSIDE / hidden face, 10 from both edges, 10-high characters, 0.5 deep, 60° V-bit. Text = ID-unit-role, e.g. BA-1-L, BB-1-t, BC-1-i, M-2-b.

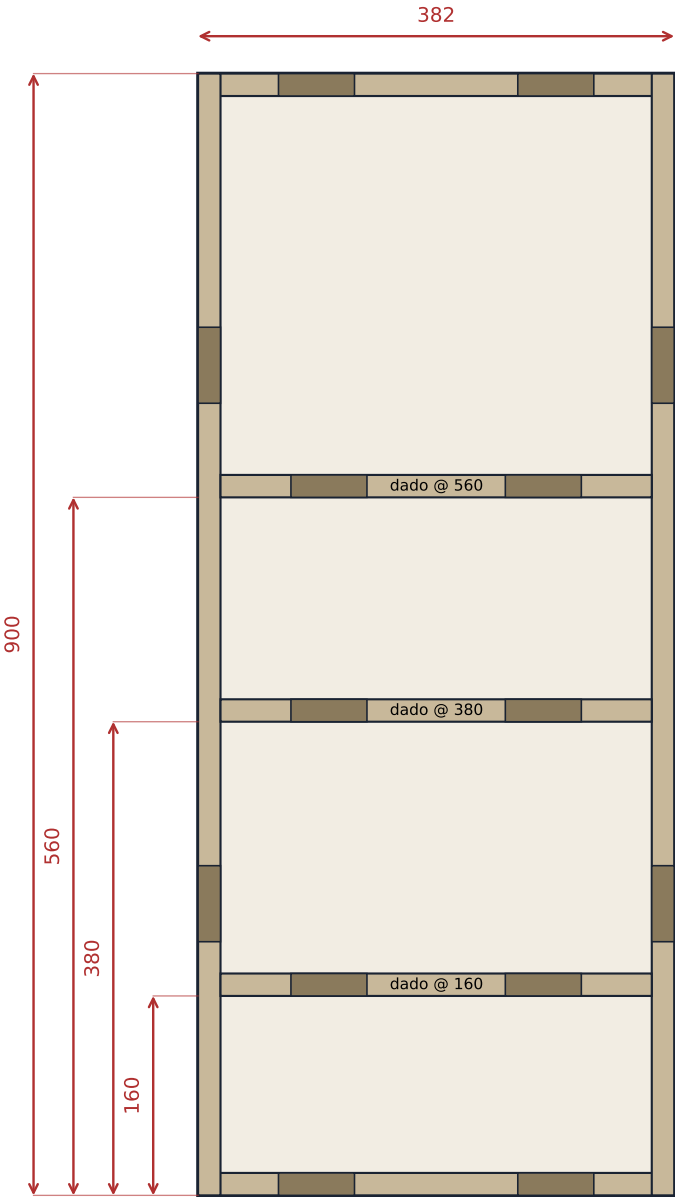
ORIENTATION RULE: label readable in the lower-left = inside face up, FRONT edge LEFT, BOTTOM edge DOWN. The label IS the orientation mark — no pencil marks needed. If a label reads anywhere else, the panel is in the wrong hand or orientation.

Faces: sides → pocketed face. Captured panels → concealed interior face. OUTER BAFFLES (BE/HE/N) → engrave inside the DRIVER REBATE FLOOR (hidden under the flange forever); their rear faces are lamination surfaces — keep them untouched.

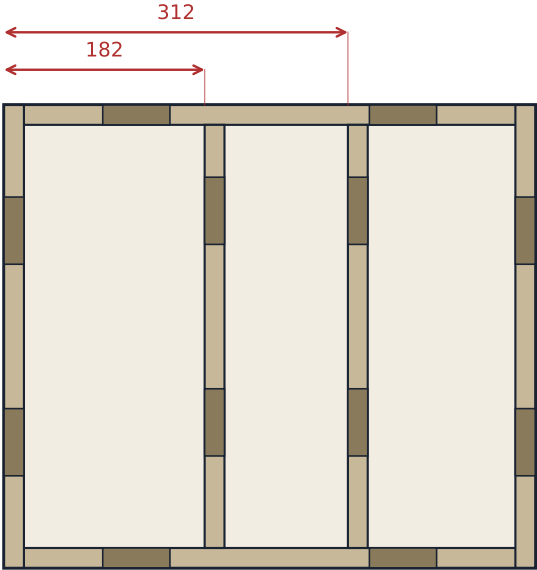
Machining stations throughout are from the panel's OWN bottom edge and left edge.

NOTE: BC-i/BC-b and HC-i/HC-b and L/M are identical blanks distinguished only by machining; cut blanks together, then split the stacks for machining.

[tabbed] = blank size includes two 60x6 locking tabs per captured edge (pages 2, 4).



BA — BASS SIDE — qty 4 = 2 LH + 2 RH (mirrored program)
LH shown; front edge = LEFT



J — SUB SIDE — qty 4 = 2 LH + 2 RH • LH shown, front edge = LEFT

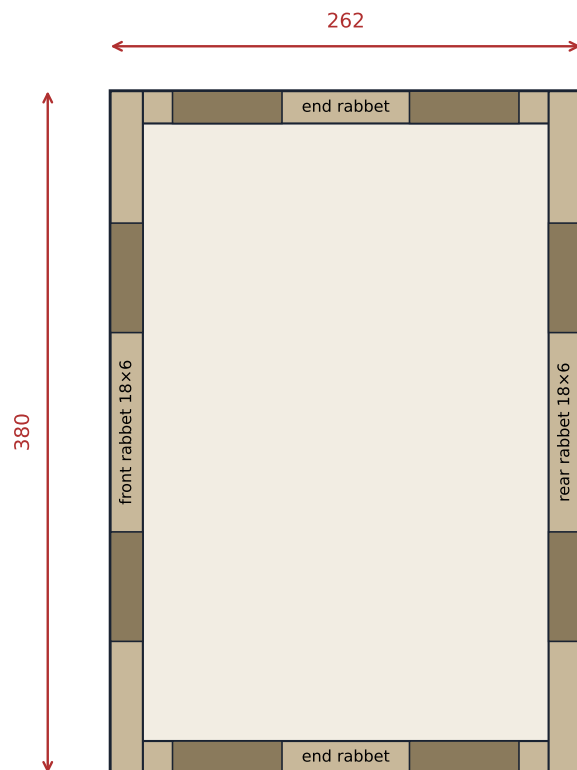
POCKET / TAB STATIONS — side pockets vs captured-panel tabs (both = center of 60 tab)

SIDE FEATURE	SIDE POCKETS (side datum) ..	PANEL TABS (panel's own edge)
BA end rabbets	95, 287 from FRONT	BB: 95, 287 from front
BA front/rear rabbets	234, 666 from BOTTOM end ...	BC: 216, 648 from panel bottom
BA brace dados	87, 259 from dado front ...	BF: 87, 259 from front
J end rabbets	120, 362 from FRONT	K: 120, 362 from front
J front/rear rabbets	114, 306 from BOTTOM end ...	L/M: 96, 288 from panel bottom
J brace dados	114, 306 from BOTTOM end ...	P: 96, 288 from panel bottom
HA end rabbets	65, 197 from FRONT	HB: 65, 197 from front
HA front/rear rabbets	104, 276 from BOTTOM end ...	HC: 86, 258 from panel bottom

The 18 offset on vertical stations = the bottom panel thickness the captured panels rest on.
Assembled registration of every tab/pocket pair is computationally verified (this revision).

Head Side Panel & Machining Notes

HA ~1:2.5 • all dims mm • 18mm Baltic birch • REV L



HA — HEAD SIDE — qty 4 = 2 LH + 2 RH
no dados; pockets at stations (p.4 table)

MACHINING NOTES**RABBETS & DADOS**

- All 6.0 deep. Width = measured stock thickness +0.1/-0.0 (see page 1).
- Through cuts; flat-bottomed.
- Each box's two sides: identical program, used as a mirror pair.

BORES

- Outer-baffle bores get the flush rebate (page 2 detail): diameter/depth set from the physical driver [VERIFY].
- Inner-baffle bores are +10 oversize, through, no rebate.
- No mounting screw holes — owner drills with drivers in hand.

AMPLIFIER CUTOUTS [VERIFY]

- Per the supplied Hypex FA123 / FA501 drawings; confirm vs physical amps.
- Inside corners: use drawing radius, or T-bone/dogbone relief ONLY where the amp flange covers it [VERIFY overhang].
- Positions on page 6. No screw holes.

LOOSE PANELS

- BE / HE / N outer baffles ship loose and unbonded — owner laminates after carcass assembly.

EDGE TREATMENT

IN SCOPE — ease internal cutout edges:

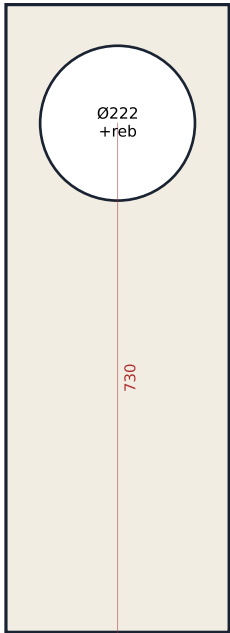
- Brace windows + P Ø200 bores: R2-3 roundover or 2 mm chamfer, BOTH faces.
- Inner-baffle bores (BC-i, HC-i, L): 3-4 mm chamfer, REAR arris only — front face stays square (lamination face).

KEEP DEAD SQUARE (joint / seating surfaces):

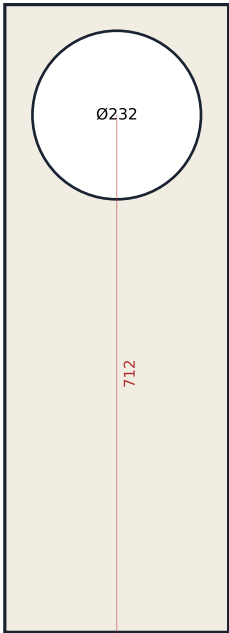
- All rabbets, dados, and every edge that enters one; all lamination faces; outer-baffle rebates + bores; amp cutout edges.
- Other panel arrises: light hand-break (~0.5 mm) permitted for handling safety.
- Finished-cabinet EXTERNAL edges: owner, after assembly (R3 roundover) and after lamination (18-20 baffle roundover).

PANEL	FEATURE		CENTER (from LEFT edge, from BOTTOM edge)
BE outer	Ø222 through + rebate	~Ø243 x ~9 [VERIFY]	(160, 730)
BC-i inner	Ø232 through		(154, 712)
BC-b back	FA123 rect cutout per Hypex dwg	[VERIFY]	centered on width; cutout LOWER edge 90 up
HE outer	Ø124 thr + rebate	~Ø147.5 x ~7 [VERIFY]	(105, 106)
	Ø150 thr + rebate per SB adapter dwg	[VERIFY]	(105, 274)
HC-i inner	Ø134 through		(99, 88)
	Ø160 through		(99, 256)
N outer	Ø325 through + rebate	~Ø347.5 x ~10 [VERIFY]	(210, 210)
L inner	Ø334 through		(204, 192)
M back	FA501 rect cutout per Hypex dwg	[VERIFY]	centered both axes

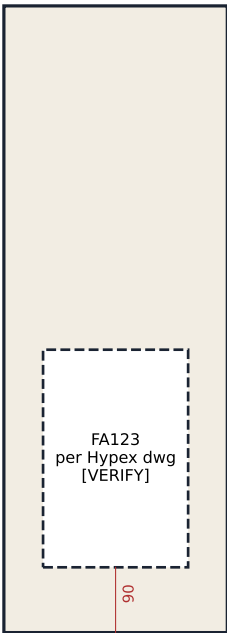
All [VERIFY] diameters/depths are nominal from datasheets; final dimension comes from the supplied physical hardware. Rebate fit target: flange flush, +0 / -0.2, 0.5-0.75 radial clearance.
NOTE: woofer & sub bolt circles likely overlie the inner-baffle relief bores – mounting hardware engages the rebate ring only (~9-12 of ply): owner uses short inserts (≤9) or #8 wood screws.
Double-sided ops: BC-b / HC-b / M (badge face) and BE / HE / N (rebate front, dowels rear).



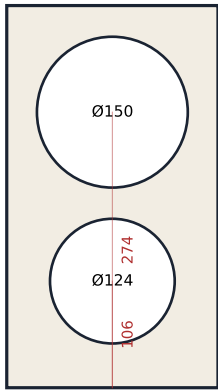
BE (outer)



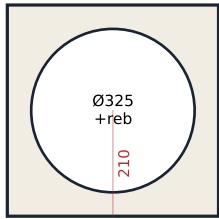
BC-i (inner)



BC-b (back)



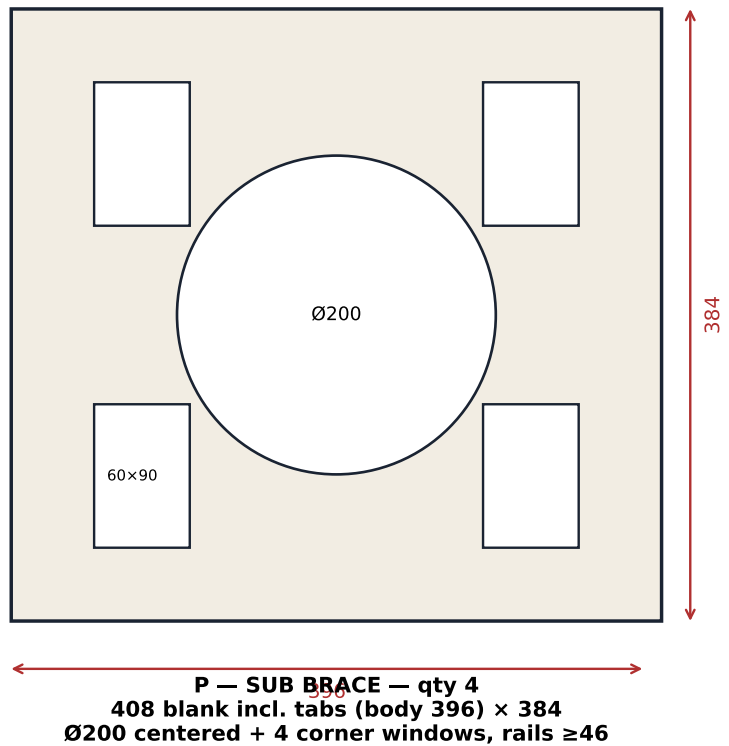
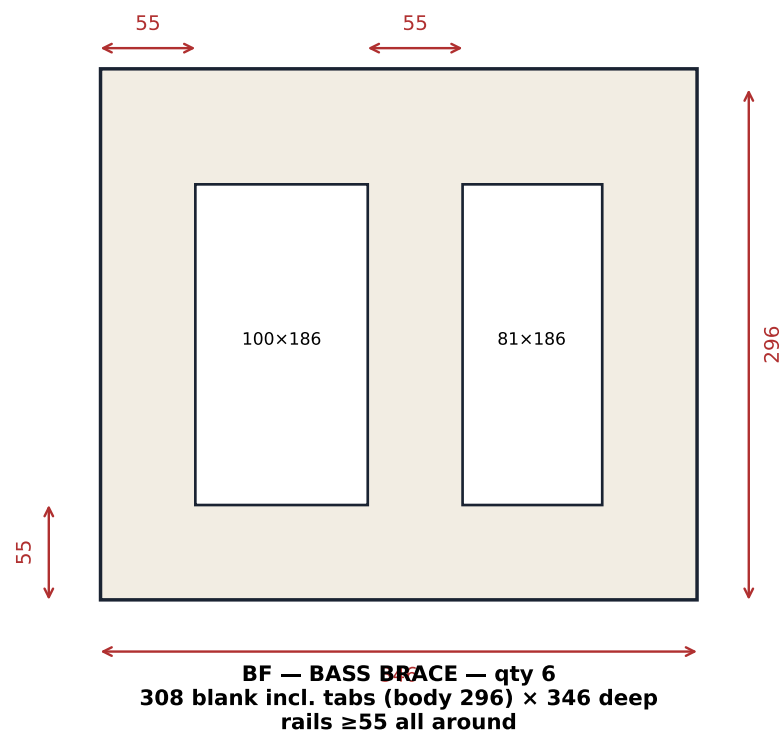
HE (outer)



N (outer)



M (back)



Window positions non-critical (±5); rail minimums ARE critical. Ease all window and Ø200 bore edges R2-3 or 2mm chamfer, both faces. Equivalent-area substitutions OK.

SHEET 3: 3 BC, 6 HA (use 4), 4 HB, 4 HC

BB	BB		
BB	BB	BF blank	BF
BA	BA	BA	BF
			BF
			BF

BF blank	HE (trim)	HE (trim)	
BA	BE	BE	BC

HB (rip)	HB (rip)	HB (rip)		HB	HC
HA (rip)	HA (rip)	HA (rip)		HA	HC
BC	BC	BC		HA	HC
				HA	HC

SHEET 5: 2 N, 7 L/M/P

K	K	L/M (trim)
J	J	K
J	J	K

L/M/P (trim)	L/M/P	L/M/P
N	L/M/P	L/M/P
N	L/M/P	L/M/P

Panel IDs are ENGRAVED (p.3 spec)
lower-left, hidden face.

Logo Engraving & Connector Pass-Throughs

badge artwork supplied as SVG • all dims mm • 18mm Baltic birch • REV L



**BADGE — engrave from supplied SVG
(kr-creation-badge.svg); scale OD to
placement diameter below**

ENGRAVING SPEC

- V-carve, 60° bit (90° acceptable), max depth 1.5 mm.
- OUTSIDE face of the panel — note the panel schedule face marks. All engraving positions are centered on panel width, so no left/right handedness applies.
- Owner paint-fills after finishing; leave crisp edges, no sanding inside grooves.

BADGE / TEXT PLACEMENTS (center from LEFT edge, from BOTTOM edge)

- BC-b bass back Ø90 badge @ (154, 700) [above FA123]
- HC-b head back Ø60 badge @ (99, 250)
- M sub back single line "A · KR · CREATION",
12 mm cap height, centered @ (204, 40)
[below FA501 cutout; no room for roundel]

CONNECTOR PASS-THROUGHS Ø24 nominal [VERIFY vs supplied

NL4 round-mount chassis connector — typical panel hole

Ø23.6-24.0; mounting screw holes by owner]

- HC-b head back Ø24 through @ (99, 60)
- BB-t bass top Ø24 through @ (154, 322 from FRONT edge)
[60 from rear edge; feeds head umbilical;
owner seals at assembly]

LEAD ATTACHMENT SUMMARY (for reference — no further machining)

- Bass cab & sub: signal + mains enter via the FA123 / FA501 amplifier panels themselves (XLR/RCA/AES + IEC); the amp cutouts on page 6 are the only provision needed.
- Head: NL4 connector in HC-b (above); umbilical exits the bass cab through the BB-t pass-through.

LAMINATION REGISTRATION — Ø8 x 6.0-deep dowel pockets, 4 per mating face, so each loose outer baffle self-locates on its carcass for the owner's lamination. Same XY in space; coordinates below are per-panel (from LEFT edge, from BOTTOM edge). Pocket Ø: 8.0 +0.2/-0. NO through holes.

MATING PAIR	OUTER-BAFFLE REAR FACE				INNER-BAFFLE FRONT FACE			
BE <-> BC-i	(70,150)	(250,150)	(70,480)	(250,480)	(64,132)	(244,132)	(64,462)	(244,462)
HE <-> HC-i	(35,60)	(175,60)	(35,330)	(175,330)	(29,42)	(169,42)	(29,312)	(169,312)
N <-> L	(45,45)	(375,45)	(45,375)	(375,375)	(39,27)	(369,27)	(39,357)	(369,357)

All positions clear the driver bores. Pattern is symmetric about the width centerline only — a vertically-flipped panel will not register (bores visibly misalign): mistake-proof.

- OWNER ASSEMBLY SEQUENCE (reference — not shop scope)
- 1. Dry-fit each box completely. Tabs locate; nothing should need force.
 - 2. Lay one side inside-face up. Glue all dados/rabbets/pockets; drop in braces, inner baffle, back, top, bottom vertically. Glue + cap with second side. Band clamps; check diagonals (they should already be equal — the tabs did it).
 - 3. Interior glue fillet along every joint = the air seal. Wipe squeeze-out on outside faces.
 - 4. Laminate outer baffle: glue both faces, Ø8 dowels in the registration pockets, cauls + weights/clamps. The dowels carry alignment; pressure is for bond, not position.
 - 5. R3 roundover all external edges; 18-20 roundover on baffle verticals; finish.
 - 6. Inserts, gaskets, damping, harness, amps, drivers per the build plans.

WHY THE JOINTS LOOK THE WAY THEY DO (one paragraph for the shop's benefit)

These are sealed loudspeaker enclosures: every joint is an air seal first and a structural joint second. Hence: blind pockets only (no through-tabs to the exterior), continuous dados rather than discrete slots (unbroken glue line), slip-fit tabs (location, not retention — glue does the work), and dead-square seating surfaces at every rebate and cutout.