Airplane-Themed Kids Bedroom Built-In

STOCK-CABINET BOOKCASE | PLANNING & ADAPTATION CARD

Best for: Homeowners, DIY readers, and cabinetmakers planning compact closed toy storage with adjustable open book shelving and restrained airplane accents.

PROJECT AT A GLANCE

One white two-door stock base cabinet supports the visual concept for a shallower, custom birch-plywood upper bookcase. A blue crown, red transition band, and two airplane silhouettes provide the theme. This is a **proposed design**, not a site-verified completed build.

WORKING DIMENSIONS / INCHES WITH METRIC EQUIVALENTS

Element	Reference dimension	Status
Overall built-in	30 W x 24 D x 78.25 H in 762 x 609.6 x 1,987.55 mm	Proposed overall envelope
Lower stock cabinet	30 W x 24 D x 34.5 H in 762 x 609.6 x 876.3 mm	Manufacturer-listed exterior size
Upper bookcase	30 W x 12 D x 43 H in 762 x 304.8 x 1,092.2 mm	Proposed dimensions
Intermediate deck	0.75 in nominal 19.05 mm	Provisional; interface pending

MAIN COMPONENTS & MATERIALS

Reference / component	Role and quantity
Hampton Bay Avondale B30, Alpine White	1 factory-white stock base cabinet with 2 doors; retain its original finish
Columbia Forest Products PureBond Birch, model 165921	Paintable structural plywood, approx. 0.703 in (17.86 mm) actual; 2 sides, 1 top, 3 adjustable shelves proposed
Thin birch plywood backing; PureBond 165891 reference	1 rear panel sized to suit; approx. 0.188 in (4.78 mm) actual
Paintable wood trim and custom silhouettes	White face/edge trim, 1 blue crown accent, 1 red transition band, 2 airplane shapes

FINISHES, HARDWARE & CONSUMABLES

Wood finish: compatible primer and white cabinet/trim enamel for newly fabricated wood; blue and red paint for separate accent pieces. Sherwin-Williams Emerald Urethane Trim Enamel and Extreme Bond Primer are researched references, **not** a confirmed substrate-specific coating system.

Hardware/consumables: adjustable shelf pins (type/load rating pending), suitable cabinet screws and wood adhesive for joints once detailed, shims, sandpaper, cleaning materials and trim caulk as needed. Titebond Original Wood Glue and DAP Alex Flex are recorded product references; verify applicability before purchase.

TOOLS & CAPABILITY

Tape measure, carpenter's square, level, clamps, pencil, stable work surface, suitable wood-cutting tools and edge-preparation supplies. **Skill level:** confirm capability with installer or contractor. **Duration:** depends on site conditions and approved build method.

Plan, Check, Then Build

A SIMPLE FIELD-ADAPTABLE PATH / NOT A STRUCTURAL INSTALLATION MANUAL

BEFORE YOU START

Measure usable wall width at several heights, ceiling clearance, floor level and wall plumb. Record baseboards, outlets, windows, heating, nearby furniture and door swing. Verify the actual cabinet size and room conditions before committing to cuts.

PLANNED WORK SEQUENCE

01 Check the arrangement	Compare the 2D front/side drawing and 3D model with actual wall measurements; keep the 24-in-deep base and 12-in-deep upper relationship.
02 Settle interfaces first	A qualified cabinetmaker/installer, as needed, determines bookcase joints, upper-to-base load transfer, backing stability, shelf support limits, and wall anchorage.
03 Finalize the cut layout	Revise panel lengths for confirmed joints, backing, sheet kerf, grain direction and shelf-pin system. Do not use prototype sizes as a final shop cut list.
04 Prepare and dry-lay parts	Label plywood components, check orientations and alignment on a flat surface, and inspect visible shelf/trim edges before permanent joining.
05 Prepare and finish	Sand exposed edges; prepare, prime and coat new wood per the selected products. Paint blue/red trim separately; keep the factory-finished base as supplied.
06 Install only after checks	Apply the established, site-appropriate support and anchoring methods; check level, door operation, alignment and accessible edges.
07 Style and review	Arrange books and modest toys with heavier items low; check shelf support, secure decoration details and keep clearance around openings.

SAFETY & SITE VERIFICATION

Required before installation: verify wall framing/substrate, anti-tip anchoring, upper-unit support, connections, shelf loads, and child-safe decoration attachment. An illustration or model does not establish structural performance. Avoid loose small parts; check exposed corners and access to doors/windows/exits.

SHOPPING & SOURCING NOTES

The B30 cabinet and listed PureBond plywood are retained sourcing references, **not proof of current stock or price**. Confirm exact variants and local availability. Plywood sheet count, fasteners, shelf pins, trim lengths, paint quantity and waste are **not final purchase quantities**.

PROJECT FILES AVAILABLE WITH THE ARTICLE

Editable DXF drawing | Drawing-set PDF | STEP solid model | 3D model review PDF. These files describe the proposed concept and are obtained separately through the article; this card contains no embedded download links.

USE THIS CARD AS

A compact planning checklist to discuss the design with a maker or installer, coordinate measurements and source materials. Use the full article and technical files for additional context; obtain site-specific installation details before building.