A complete brief for review

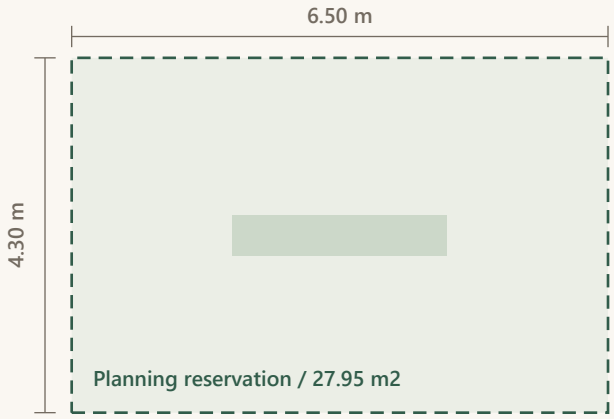
Applies to the 15 models listed in the review index. Proposed age, load, finish, maintenance and warranty values below were authored for this revision. They are not pre-existing manufacturer ratings or promises.

01 / Users and load objective

Propose an intended age range of 3-8 years, two seated users and a nominal design objective of 50 kg per seat (100 kg combined). This is a new design brief, not evidence of suitability or strength.

Validate representative body-size fit, mounting and reach. Review balanced/one-sided loading, sudden dismount, repeated motion, impact, fatigue and pinch/entrapment risks. Check whether the spring-pivot behaviour makes the footrests appropriate (CPSC 5.3.5.2). An engineer must define loads, factors and acceptance limits; 50 kg is not a proof-test prescription.

02 / Preliminary space reservation



Reserve 6.50 x 4.30 m as an early layout rectangle. Allow no overlaps at this stage. Keep paths, benches and other fixed obstacles outside it. Confirm final accessible routes and surrounding equipment as part of the site layout.

Basis: the CPSC handbook recommends 1.8288 m (6 ft) beyond seesaw edges. We add this to a hypothetical rotation-envelope bound, then round upward. The calculation gives 2.798 x 0.490 m envelope and 6.456 x 4.148 m allowance before rounding. This is a planning proposal, not an approved installation use-zone drawing.

Reference: CPSC, Public Playground Safety Handbook, July 2025, section 5.3.5.3.

REVIEW STATUS

The numeric design objectives on this page need engineering acceptance and prototype evidence before they can be used as public product ratings.

Height and installation basis

03 / Height bound for planning

Calculation assumption: the shared conservative enclosing box for the neutral assembly X = +/-1300 mm, Y = +/-245 mm, Z = 0 to 703 mm is allowed to rotate about the fixed Y-axis at Z = 186 mm. With no base translation or other axis of rotation, R = sqrt(1300^2 + 517^2) = 1399.0 mm. Its conservative upper height bound is 186 + R = 1585.0 mm above model Z0. This deliberately includes fixed parts in the bound. It is not an achievable motion angle or measured free height of fall. The allowance assumes finished surfacing at Z0; revise for installation offsets, extra motion or changed geometry.

Propose a surfacing system with documented critical fall height of at least 2.0 m for preliminary budgeting. Its actual thickness and substrate must follow the selected system and final installed fall-height assessment. No generic rubber thickness is specified. Do not open the equipment for use from this calculation alone.

04 / Installation sequence - proposed

1. Survey and design	Record levels, drainage, ground conditions, services and neighbouring equipment. Agree the final finished surface datum and foundation design.
2. Confirm the interface	Check the delivered base against the 530 x 340 mm plate and 430 x 308 mm anchor-hole pattern. Select anchors by engineered capacity, not by hole diameter alone.
3. Install structure and surface	Follow the approved footing, anchor and surfacing drawings. Keep fixings and concrete outside accessible impact/contact hazards. Maintain drainage and required clearances.
4. Inspect before handover	Record anchor installation and tightening values from the approved fixing system; inspect stability, assembly, travel, clearances, edges and surfacing. Record measured height and release only after review.

FOUNDATION DRAWING INPUTS

A footing size, concrete grade, embedment depth, anchor model, bolt grade and tightening torque cannot be inferred from the visual model. These must be designed for the site loads and fixing system.

Finish and care proposal

05 / Materials and finish

PE panels	Specify outdoor, UV-stabilised PE stock in the supplied colour codes; approve grade, colour samples, edge finish and fastener detailing before procurement.
Frame and base	Specify a corrosion-protection system compatible with the final steel grade, followed by exterior polyester powder coating. The coating supplier defines preparation, film build, cure and repair procedure.
Springs and hardware	Use the spring maker's approved protection process; do not apply frame coating/heat treatments to springs without their approval. Select outdoor fixings and isolate incompatible metals as required.

06 / Maintenance schedule - proposed baseline

Before opening	Check visible damage, loose/missing fixings, trapped objects, sharp edges and surfacing condition. Close the affected unit if a defect could injure a user.
Monthly	Inspect movement, spring/connection condition, base stability, wear and corrosion. Check fasteners against approved values; do not tighten by an invented universal torque.
Every 12 months	Have a competent person inspect structural condition, foundations, dynamic clearances and surfacing performance. Record parts replaced and any changes to the installation.
After damage or severe weather	Carry out an additional inspection before return to use. Increase inspection frequency for heavy use, vandalism, salt or other severe exposure.

CLEANING AND RECORDS

Wash PE and coated surfaces with mild detergent and water, then rinse. Avoid abrasive or aggressive chemicals. Repair coating damage using the approved system. Lubricate only components whose supplier requires it. Keep dated inspection, defect, repair and reopening records.

Commercial and release notes

07 / Theoretical mass

Mass is calculated from each named part instance in the supplied assembly schedule. Its volume already includes all solids within that instance; solids counts are not quantity multipliers. The central cover volume already includes the engraving. Nominal density assumptions and material substitutions are disclosed in the mass calculation file.

Use the figures for preliminary product comparison only. They exclude coatings, additional weld metal, separately supplied anchors, concrete and packaging. Unspecified bearing compounds and reference spring geometry are unresolved contributors. Weigh the final assembly before issuing shipping, lifting or declared net-weight data.

08 / Draft warranty offer

Propose 24 months from delivery for defects in materials and workmanship under the agreed intended use, correct installation and documented maintenance. Proposed remedy: repair or replacement of the defective part after review of the claim. This is proposed wording for HonPlay review, not a current company warranty.

Ordinary wear, cosmetic weathering, misuse, impact/vandalism, unauthorised modification and damage caused by improper installation or missed maintenance fall outside this proposed voluntary cover. Confirm labour, freight, claim evidence and any market-specific requirements in the accepted quotation or contract. Applicable mandatory customer rights remain unaffected.

09 / Release record

Engineering	**Accept intended users, design loads, spring/stop specification, motion clearances and the measured installed fall-height assessment.**
Site designer / installer	**Approve layout, surfacing system, foundation, anchors, installation method and handover inspection.**
HonPlay commercial owner	**Approve material/finish offer, declared measured weight and warranty terms before using them in quotations or public product data.**

External planning reference: CPSC
Public Playground Safety Handbook, July 2025, sections 5.3.5 and 4. Link below is guidance, not a statement that these products meet a standard.