KIDS CLIMBING WALL SYSTEM

MODULAR INTERACTIVE BOULDERING & FUN CLIMB WALL EQUIPMENT

Technical Data Sheet
Model: KCW-FUN-3000

The **Kids Climbing Wall System** is a high-durability, safety-certified modular climbing equipment designed for indoor play centers, schools, sports complexes, and commercial family entertainment centers (FECs). Built with heavy-duty birch plywood or fiberglass panels, non-toxic textured coatings, ergonomic color-coded climbing handholds, and integrated safety landing mats, it develops youth balance, agility, and motor skills in a secure environment.

KEY SAFETY & DESIGN FEATURES

- **Child-Safe Ergonomic Grips:** Smooth, non-toxic resin handholds shaped specifically for smaller hands without sharp edges.
- **Dual Safety Configuration:** Low-height Bouldering mode (under 2.5 m without harness) or Auto-Belay rope system for high-climb walls.
- **Heavy Structural Subframe:** Galvanized steel tubular back-frame supporting high dynamic loads and multi-climber use.
- **Modular Panel System:** Interchangeable 1.2 m × 2.4 m panels with customizable thematic graphic prints and route setups.
- **High-Impact Safety Matting:** 200 mm shock-absorbing foam crash mats with heavy-duty PVC vinyl covers meeting fall safety standards.
- **Low-Maintenance Coating:** Scratch-resistant, washable anti-microbial surface coating for easy cleaning and high durability.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION VALUE
Target Age Group	3 to 14 Years
Standard Module Dimensions (W × H)	1.2 m × 2.4 m per panel (Custom wall length & height available)
Wall Panel Construction	18 mm Structural Birch Plywood / Fiber-Reinforced Polymer (FRP)
Handhold Density & Type	12 to 15 Grips per m² (Polyurethane Resin, Non-Toxic, UV-Stable)
Structural Subframe Material	Q235 Powder-Coated Steel Box Sections (50 mm × 50 mm × 2.5 mm)
Max. User Weight Capacity	100 kg per climbing lane / hold point
Landing Mat Specification	200 mm High-Density EPE Foam with 0.55 mm Flame-Retardant PVC Cover
Auto-Belay Unit (For Walls > 3 m)	Magnetic Auto-Belay System (EN 341:2011 Class A / ANSI Z359.4)
Safety & Manufacturing Standards	EN 12572 (Climbing Structures) / ASTM F1487 / ISO 9001 / CE

PARAMETER	SPECIFICATION VALUE
Fire Resistance Rating	Class B-s1, d0 (EN 13501-1 / ASTM E84 Flame Retardant)
Surface Finish	Textured Quartz-Sand Epoxy Coating (Anti-Slip Foot Friction)
Estimated System Weight	Approx. 35 kg per m² (including steel framework)

APPLICATIONS & VENUE TYPES

Indoor Play Centers & FECs

Interactive fun-climbing walls, themed bouldering zones, and adventure play parks.

Schools & Daycare Facilities

Physical education climbing walls, agility development tracks, and sports halls.

Resorts & Recreation Clubs

Kids club activity walls, fitness centers, and commercial indoor activity zones.

* Installation must be anchored to load-bearing concrete walls or structural steel columns. Daily inspection of holds and safety mats recommended before operation.