1. PRODUCT IDENTIFICATION

Field	Value
Product Name	Privacy Horizontal Fence
System / Series	FHP64
Product Code	FHP64 — On-Ground (surface-mount) configuration
Product Family	Aluminum Fencing Systems — Horizontal Privacy Fence
Product Type	Full-privacy horizontal slat fence panel, post-and-rail, surface-mounted base
Primary Function	Boundary screening / full-privacy partition
Typical Application	Residential and commercial exterior perimeter fencing
Intended Environment	Outdoor / exterior exposure
Manufacturing Location	Aluminum Light Solutions (PrimeAlux), Aqaba, Jordan

2. PRODUCT DESCRIPTION

The PrimeAlux Privacy Horizontal Fence (FHP64) is a 6 ft (1830 mm) wide by 4 ft (1280 mm) high aluminum panel fence system for surface-mounted, On-Ground installation. The system comprises 80 x 80 mm extruded aluminum posts, top and bottom rails, and ten horizontal slats. Each panel is supplied with one post; one additional end post is required to complete each fence run. Slats are constructed from aluminum coil formed over a rigid polyurethane foam core. Extruded components are 6063-T6 aluminum; slat coil is 3105-H46 aluminum. An Under-Ground (embedded-post) configuration is available under a separate bill of materials, not covered by this data sheet.

3. TECHNICAL DRAWING

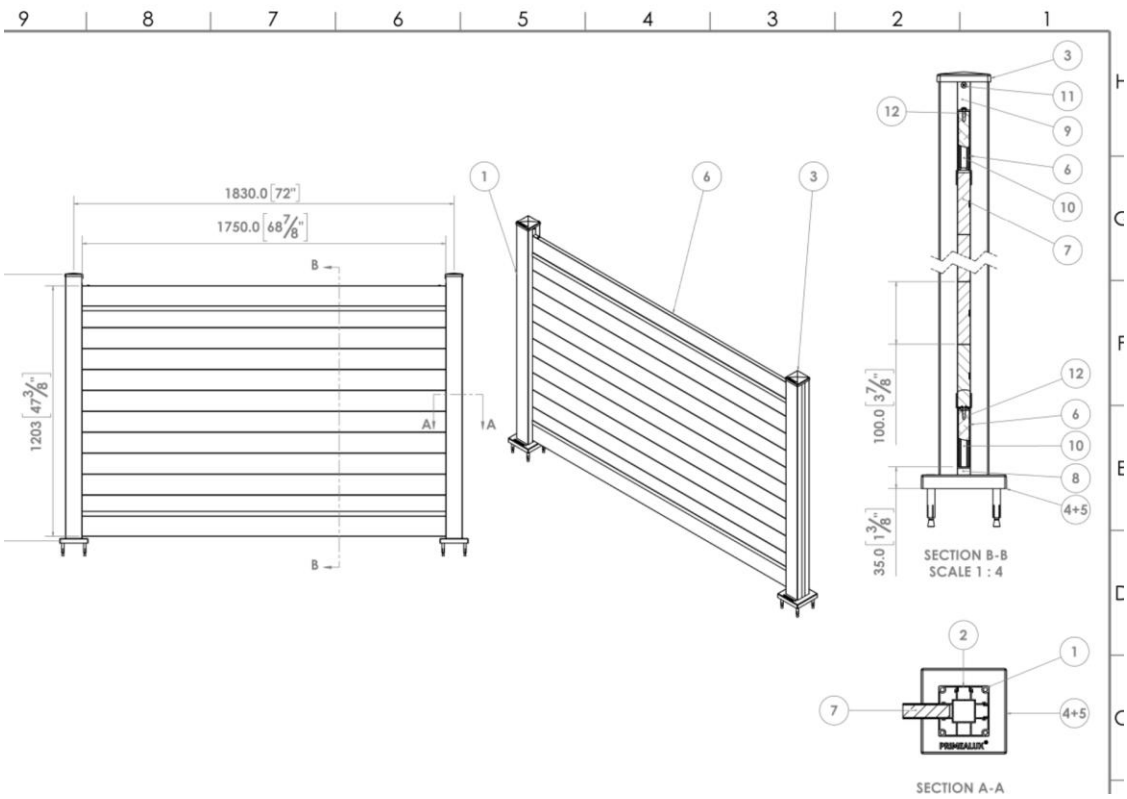


Figure 1 — FHP64 general arrangement, elevation, and section detail (On-Ground configuration). Source: PrimeAlux engineering drawing (BOM sheet, W 6' x H 4' Privacy Horizontal Fence).

4. SYSTEM COMPONENTS

Item	Description	Code	Size (mm [in])	Qty
1	Post	P8004	1280 [50 3/8"]	1
2	4' Post Cover	PC04	1280 [50 3/8"]	1
3	Post Cap	CP80	—	1
4	Base Plate Assembly	BPC	—	1
5	Base Plate Cap	BC80	—	1
6	Rail (Top/Bottom)	FR06	1750 [68 7/8"]	2
7	Alu Slat 6' Horizontal	S10070	1785 [70 1/4"]	10
8	Bottom Spacer	SP025	25 [1"]	2
9	Top Spacer (drilled on site)	SP057	57 [2 1/4"]	2
10	Rail Bracket 4"	RB4	90 [3 9/16"]	4
11	Pan Head Screw	FS4232	M4.2 x 32 mm	2

Item	Description	Code	Size (mm [in])	Qty
12	Pan Head Screw	FS4219	M4.2 x 19 mm	4

5. MATERIAL SPECIFICATIONS

5.1 ALUMINUM EXTRUSIONS

All PrimeAlux extruded aluminum components are specified as 6063-T6 (PrimeAlux company specification). Geometry below is taken from PrimeAlux-approved supplier profile drawings.

Component	Code	Alloy/Temper	Nominal Wall Thickness	Mass
Post	P8004	6063-T6	1.6 mm	3.286 kg/m
Rail (Top/Bottom)	FR06	6063-T6	1.5 mm (sides) / 2 mm (top)	1.217 kg/m
Post Cover	PC04	6063-T6	1.3 / 1.4 mm	0.139 kg/m
Base Plate stock	BPC	6063-T6	10.0 mm	3.488 kg/m
Rail Bracket	RB4	6063-T6	Solid (N/A)	1.771 kg/m
Bottom Spacer	SP025	6063-T6	1.3 / 1.4 mm	0.139 kg/m
Top Spacer	SP057	6063-T6	1.3 / 1.4 mm	0.139 kg/m

5.2 PLASTIC COMPONENTS

Component	Code	Material
Post Cap	CP80	Plastic
Base Plate Cap	BC80	Plastic

5.3 ALUMINUM COIL / CORE (SLATS)

Material	Alloy / Type	Thickness
Aluminum coil (skin)	3105-H46	0.43 mm
Core	Rigid polyurethane foam, solid — nominal density 60 kg/m³	—

Construction: aluminum coil wrapped around a solid polyurethane foam core.

5.4 FASTENERS

Description	Code	Size	Material / Grade / Finish
Pan Head Screw	FS4232	M4.2 x 32 mm	Stainless steel, Grade 304 (SS304)
Pan Head Screw	FS4219	M4.2 x 19 mm	Stainless steel, Grade 304 (SS304)

6. DIMENSIONS

Parameter	Value
Overall width (post center to post center)	1830 mm [72"]

Parameter	Value
Overall height (incl. post cap)	1280 mm [50 3/8"]
Panel width (slat span between posts)	1750 mm [68 7/8"]
Panel height (slat-covered span)	1203 mm [47 3/8"]
Post section	80 x 80 mm
Slat (horizontal) length	1785 mm [70 1/4"], qty 10
Top/bottom rail length	1750 mm [68 7/8"], qty 2
General tolerance	Linear +-1 mm [+-1/16"]; Angular +-1 deg (EN 755-9)

7. PERFORMANCE

7.1 STRUCTURAL — WIND RESISTANCE

PrimeAlux internal SOLIDWORKS Flow Simulation (CFD), modeled at an averaged free-stream airflow velocity of 167.6 km/h (≈ 104.1 mph). The simulation returned a total resultant aerodynamic force on the panel of approximately 4188 N (normal-direction component approximately 4188 N).

This is a PrimeAlux internal engineering simulation, not an independently accredited physical laboratory test. No physical wind-load test has been performed on this product; this simulation is the only structural wind data currently available for FHP64.

Source: PrimeAlux internal SOLIDWORKS Flow Simulation, September 2026.

7.2 FIRE — SURFACE BURNING CHARACTERISTICS

Tested to ASTM E84-24 for this slat/core construction. **Flame Spread Index: 0. Smoke Developed Index: 50.** This result applies to this product's slat construction (PrimeAlux-confirmed).

Note: neither ASTM E84 nor UL 723 assign a letter classification. Correlation to an IBC/NFPA Class A rating (0-25 FSI, 0-450 SDI) is drawn from the model codes, not from this test method, and is not an unqualified fire rating.

Source: Intertek B&C, Report No. T0044.01-121-24.

8. TESTING & STANDARDS SUMMARY

Standard	Description	Result	Status
PrimeAlux internal SOLIDWORKS CFD (flow simulation)	Structural — aerodynamic wind load (simulated)	167.6 km/h avg. velocity; ≈4188 N resultant force	Simulated
ASTM E84-24	Surface burning characteristics	FSI 0 / SDI 50	Tested

9. FINISHES

Component	Coating Type	Typical Thickness
Aluminum extrusions (Post, Rail, Post Cover, Rail Bracket, Spacer family)	Powder coating	80–100 microns
Aluminum coil (slat skin)	PUPA coating	25–30 microns

Color and finish options: contact PrimeAlux for current RAL/color range and availability.

10. INSTALLATION INFORMATION

Refer to the PrimeAlux W 6' x H 4' Privacy Horizontal Fence Installation Manual for the complete assembly procedure. The Base Plate Assembly (BPC) is surface-mounted to a level, structurally sound substrate using anchor bolts appropriate to the substrate; consult local conditions and codes for foundation design. An Under-Ground (embedded-post) configuration is available under a separate bill of materials, not covered by this data sheet.

11. STORAGE, HANDLING & MAINTENANCE

STORAGE & HANDLING

No specific storage or handling requirement beyond ordinary handling with care (per PrimeAlux company-wide standard).

MAINTENANCE

- Clean with mild soap and water; avoid abrasive tools or chemicals.
- Inspect annually for loose parts or signs of corrosion.
- Avoid impact from lawn equipment or heavy objects.
- In snow-exposed installations, do not pile snow directly against the fence.

Source: PrimeAlux W 6' x H 4' Privacy Horizontal Fence Installation Manual, Care & Maintenance section.

12. DOCUMENT CONTROL

Field	Value
Document No.	PA-TDS-FEN-FHP64-R1
Issue Date	26 October 2026
Product Code	FHP64 (On-Ground)
Status	Issued — approved by PrimeAlux for distribution.

13. TECHNICAL DISCLAIMER

Technical information contained in this document is based on the product configuration and information available at the date of issue. Product specifications may be revised as part of PrimeAlux's continuous product development. Project-specific structural, installation, and regulatory requirements must be evaluated for the relevant application.