

Walk-On Ceiling System

Introduction

The AES Pharma Walk-On Ceiling is designed with a flush, monolithic cGMP finish on the cleanroom side, and as walkable platform during construction and for safe maintenance access above the ceiling, all within a single ceiling system.

Material - Composite Panel

Panel Facing

The metal skins of the panel (both sides) consist of 24 gauge (0.7 mm) thick cold rolled galvanized steel (zinc coating of 272 g/m² to both surfaces).

Surface Finish

Cleanroom side: proprietary blend of 4 mil (0.12µm) thick unplasticized polyvinylchloride (uPVC).

Reverse side: Galvaneal (zinc-iron alloy)

Core

Aluminum honeycomb

Panel Size

4' x 10' (typical)
5' x 10' (optional)

Thickness

2" (50mm) thick composite panel

Loading

Design Load (4' x 10' panel)

20 lbs. per sq. ft. (typical)
Greater than 20 lbs. (optional)

Deflection Limit (10' clear span)

.33" (8.5 mm)



Pre-Engineered

- Apertures for HEPA filters, light fixtures, control devices, and other penetrations are engineered and cut in the factory, or may be cut in the field as required.
- The AES Pharma System accommodates both Roomside Replaceable and Disposable HEPA filters.
- Top access or bottom access cleanroom lights are available for use with the system.

Installation

The ceiling system uses extruded architectural grade aluminum alloy ceiling beams supported by drop rods threaded to turnbuckle to allow accurate laser leveling of the flush ceiling system.

Ceiling beams are typically spaced on 10' centers providing for 10' open bays.

Drop rods are typically installed at a maximum of 4-feet on center along length of the ceiling beam, or as needed to meet platform loading requirements.

Benefits

- Designed for live loads
- Accelerated construction schedule - Concurrent above/below ceiling construction activity
- cGMP Room-side finish
- Pre-engineered for predictable, repeatable quality
- Minimizes & eliminates ceiling hazards associated with stick-built construction
- Safe, easy after market maintenance and inspection