

System Introduction

Plastic Sleepers & Load Blocks are a unified product category of engineered load-bearing solutions designed for industrial support, ground stabilization, and equipment load distribution applications.

The product range is developed to provide reliable structural performance across different working conditions, including variations in load requirements, handling efficiency, and installation flexibility.

Product System Structure

The system includes three functional product types:

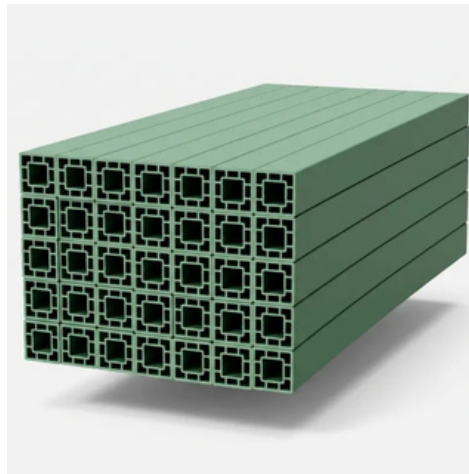
Standard Solid Plastic Sleepers

– maximum structural stability and load resistance



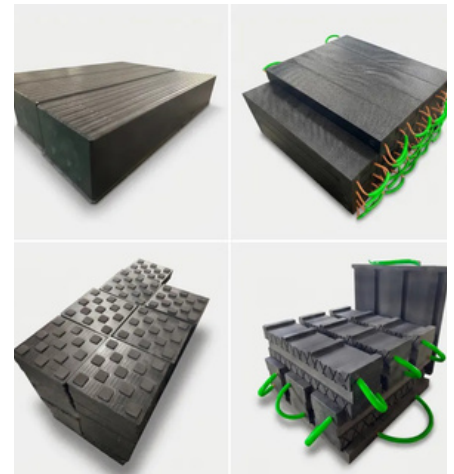
Hollow Composite Plastic Sleepers

– optimized weight reduction with maintained strength



Plastic Load Blocks

– precision support for localized loading and alignment applications



System Value

- Consistent and reliable load-bearing performance
- Optimized balance between strength and weight
- Adaptable solutions for multiple industrial scenarios
- Suitable for both temporary and long-term applications

Material Foundation

All products in the Plastic Sleepers & Load Blocks System are manufactured from UHMWPE (Ultra-High Molecular Weight Polyethylene).

UHMWPE provides exceptional:

- Impact resistance
- Wear resistance
- Low friction performance
- High load distribution capability
- Long-term structural stability

This material foundation ensures consistent performance across all product types within the system.

Selection Guide

This selection guide is designed to help users quickly identify the most suitable product type within the Plastic Sleepers & Load Blocks system based on application requirements, structural conditions, and handling needs.

Each product type is engineered for specific functional purposes to ensure optimal performance in different industrial scenarios.

APPLICATION REQUIREMENT	RECOMMENDED PRODUCT TYPE	KEY REASON
Maximum load-bearing capacity	Standard Solid UHMWPE Sleepers	Highest structural strength and compressive resistance
Lightweight handling & transport efficiency	Hollow Composite Plastic Sleepers	Reduced weight while maintaining structural stability
Modular assembly & alignment applications	UHMWPE Load Blocks	Interlocking / positioning functionality
Heavy industrial equipment support	Standard Solid UHMWPE Sleepers	Superior load distribution performance
Indoor storage, pallet support & frequent handling	Hollow Composite Plastic Sleepers	Lightweight, easy to handle and cost-effective for logistics applications
Precision leveling and confined space support	UHMWPE Load Blocks	Localized load control and compact design

System Role Overview

Each product type serves a distinct functional role within the UHMWPE support system:

- **Solid Sleepers** → Maximum structural load-bearing capacity
- **Hollow Sleepers** → Optimized weight reduction and handling efficiency
- **Load Blocks** → Precision positioning and modular support

This structure ensures flexible adaptation across different industrial conditions.

The system enables efficient selection of the optimal UHMWPE support solution based on load, handling, and installation requirements.

Product Details

This section provides a brief overview of each product type along with its typical industrial applications.

Standard Solid Plastic Sleepers



Overview

Standard Solid Plastic Sleepers are designed for high-load structural support applications requiring maximum stability and long-term durability. The solid structure ensures consistent load distribution under heavy industrial conditions.

Typical Applications

- Crane outrigger support
- Heavy machinery leveling and stabilization
- Industrial equipment foundation support
- Construction site load distribution

Hollow Composite Plastic Sleepers



Overview

Hollow Composite Plastic Sleepers are designed for applications where lightweight construction, easy handling, and reliable load support are equally important. The hollow structure reduces overall weight while maintaining dependable performance for general industrial and logistics applications.

Typical Applications

- Warehouse & logistics storage
- Material handling and staging
- Temporary equipment support
- Packaging and distribution centers
- Indoor industrial support
- General load-bearing applications

Plastic Load Blocks



Overview

Plastic Load Blocks are designed for precision positioning and localized load support applications, especially where modular adjustment and alignment are required.

Typical Applications

- Precision equipment leveling
- Modular support and alignment systems
- Confined space load distribution
- Adjustable installation scenarios