

# Strata Sleeve-It™ System

Pre-Engineered Fencing Solutions

**When Your Wall Needs a Fence**

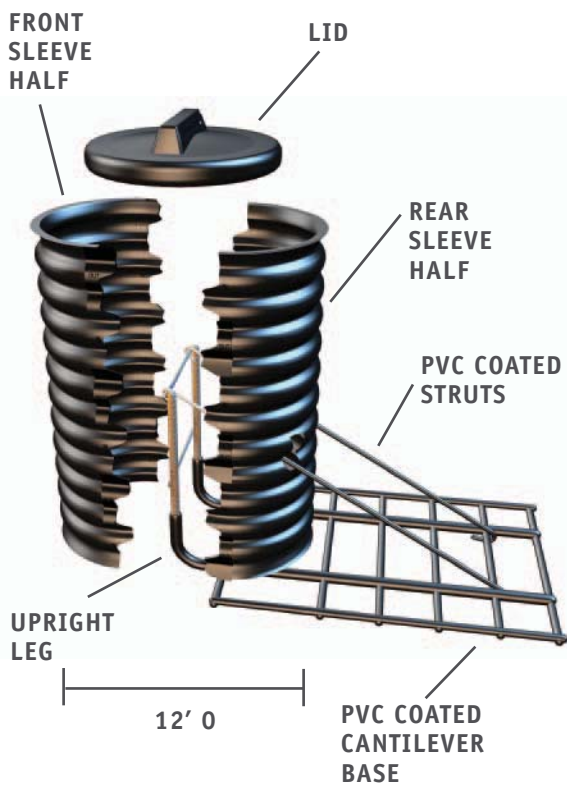




**Project** DHL Distribution Facility  
Allentown, PA

**Product** Over 350 Sleeve-It 1224R  
units used

**Savings** 10,000 square feet of  
real estate



**Isometric View of Sleeve-It  
1224R System Components**

## Simple Construction



### Step 1

Install the cantilevered  
Sleeve-It units near the  
elevation of the top of wall



### Step 2

Fill and compact soil up to  
the top of the sleeve



### Step 3

Leave the disposable lid on the  
sleeve until the fence installer  
places the fence post in the  
sleeve and fills with concrete



### Step 4

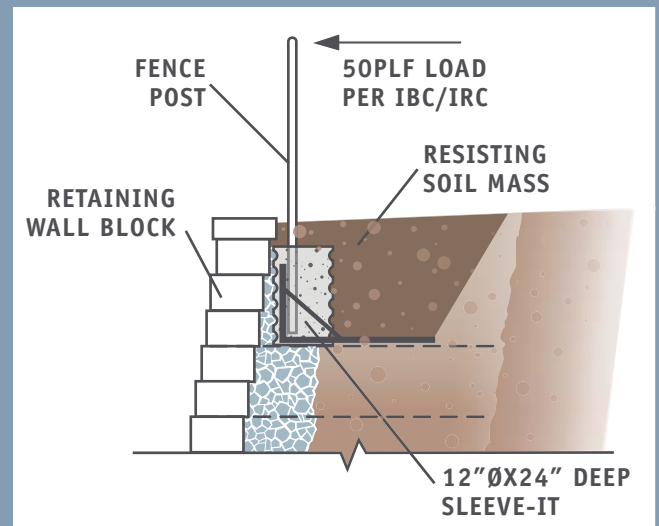
The fencing contractor finishes  
the fence, supported by the  
buried Sleeve-It System.

## Maximizing Land Use

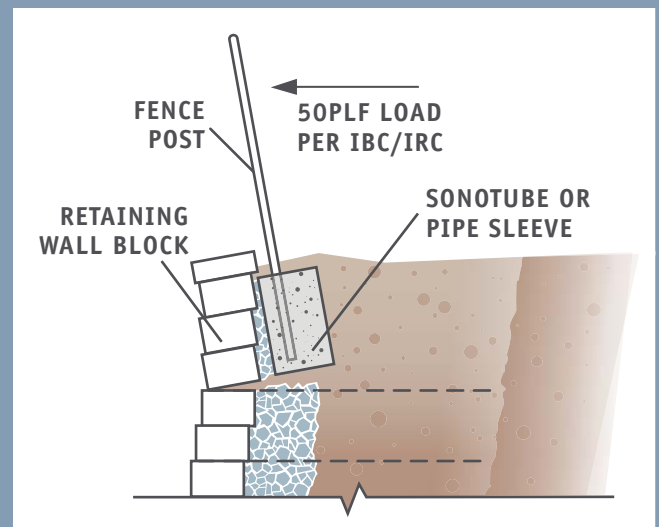
Retaining wall solutions that start with Stratagrid high tenacity geosynthetic reinforcement receive their finishing touches from the Sleeve-It™ System. The patented Sleeve-It System (rail integration device) is a code compliant, fence-post anchoring system that integrates stable fence footings into the support structure of retaining walls, while the retaining wall is being constructed.

*Don't wait until the retaining wall is built to consider fence requirements. As a pre-engineered/pre-designed system, Sleeve-It is a proven fence post integration device designed to reduce specifier liability and associated costs with building-code compliance. Using the system as part of the SRW eliminates a 3 foot offset requirement for rails/fences that are added after wall construction. Sleeve-It offers a below grade engineered design that provides superior safety in a cost effective solution.*

### With Sleeve-it



### Without Sleeve-it



# Building Codes

Both residential and commercial building codes specifically state safety rails shall be provided when the vertical grade between different surfaces exceed a fixed vertical height. Commercial codes further define minimum load requirements that the guards are to provide.



*Building codes generally require guards* (protection) atop retaining wall structures and are applicable to fencing and pedestrian rail systems placed atop segmental retaining wall systems.

## Residential Codes

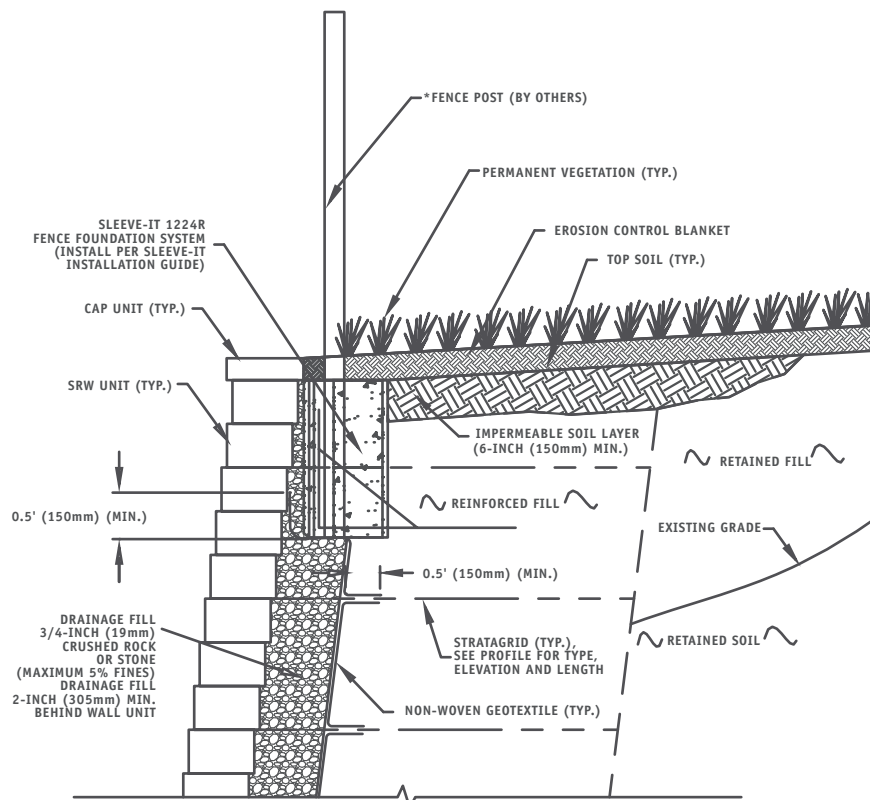
The International Residential Code (IRC) states, Section R312 - Guards, states “guards are required when raised surfaces are located more than 30 inches above the floor or grade below. The guard shall not be less than 36 inches (3 feet) in height. The requirement for guards applies to porches, balconies, decks, ramps and raised surfaces (i.e. retaining walls).”

## Commercial Codes

The International Building Code (IBC), Section 1013 – Guards, states “guards shall be located along open-sided walking surfaces, mezzanines, industrial equipment platforms, stairways, ramps and landings that are located more than 30 inches above the floor or grade below. The guard shall provide adequate strength to meet the load requirements of Section 1607.7. Section 1607.7.1 requires guards and handrails to resist a load of 50 pounds per linear foot applied along the top, and Section 1607.7.1.1 states the assemblies and guards shall be able to resist a single concentrated load of 200 pounds applied along the top.”

## Sleeve-It Testing

- Full-Scale Load Testing Performed
- Testing formulated based on PennDOT, Rutgers University in cooperation of the NJDOT and FHWA





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### *Consider Sleeve-It™ Fencing Integration System*

#### **The Undeniable Benefits of the Sleeve-It System**

- Eliminated Fence Contractor concerns about wall system integrity
- Reduces the Wall Designer's Liability related to fence integration
- Provides the Specifier with a code compliant solution
- Allow the Wall Contractor to maintain peak production
- Ensures the Developer maximum use of valuable real estate

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