



## WORKPLACE EFFICIENCY & MAINTENANCE

### ResinDek® Advantages:

- **Complete Surface Coverage:** Tools, fasteners, and small parts stay where they belong instead of falling through to lower levels
- **Maintenance Friendly:** Creates comfortable kneeling surface for workers, supports mechanics' creepers and rolling stools
- **Reduced Downtime:** Equipment servicing and repairs completed faster with better accessibility

### Bar Grating Limitations:

- Lost tools and parts through openings
- Uncomfortable kneeling surface requires additional padding
- Limited use of wheeled maintenance equipment

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## ERGONOMICS & EMPLOYEE HEALTH

### ResinDek® Delivers:

- **Reduced Physical Stress:** More forgiving surface minimizes impact forces during walking
- **Lower Fatigue Levels:** Employees experience less physical strain during shifts
- **Injury Prevention:** Biomechanical testing shows walking on bar/plank grating increases tibial shock force by over 10%
- **Improved Productivity:** Equivalent to removing 18 pounds of body weight compared to bar grating
- **Long-term Health Benefits:** Reduces risk of musculoskeletal disorders from prolonged standing and walking

### Bar Grating Concerns:

- Rigid, unforgiving surface increases physical strain
- Higher impact forces equivalent to adding 18 pounds to body mass
- Increased risk of lower extremity injury
- Greater employee fatigue during shifts
- Potential for higher injury rates and workers' compensation claims



### OPERATIONAL BENEFITS

#### ResinDek® Delivers:

- **Enhanced Mobility:** Smooth surface for pallet jacks, carts, and wheeled equipment
- **Noise Reduction:** Significantly quieter operations compared to metal grating
- **Cleaner Environment:** Prevents debris, dust, oil and grease from falling to lower levels
- **Workplace Safety:** Eliminates trip hazards from open grating, prevents heel catches
- **Professional Appearance:** Accommodates all footwear types including dress shoes

#### Bar Grating Considerations:

- Restricted movement for wheeled equipment
- Higher noise levels throughout facility
- Debris and contaminants fall to lower levels
- Potential catching hazards for various footwear types

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### STRUCTURAL & INSTALLATION ADVANTAGES

#### ResinDek® Provides:

- **Cost Efficiency:** Generally, less expensive than bar grating
- **Versatile Design:** Can handle higher point loads without additional framing
- **Field Adaptable:** Easily modified to accommodate obstructions or structural irregularities
- **Easier and Faster Repair Process:** Replace individual panels without creating fall hazards
- **10-Year Warranty:** Guaranteed performance for rolling loads

#### Bar Grating Strengths:

- Single-piece installation can be faster initially
- Better suited for wet environments and outdoor applications
- Better airflow (though this advantage diminishes once platform is loaded)

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### BOTTOM LINE COMPARISON

Feature	ResinDek	Bar Grating
Routine Maintenance	<b>Excellent</b>	Limited
Worker Comfort	<b>Superior</b>	Poor
Total Installation Cost	<b>Lower</b>	Higher
Cleanliness	<b>Better</b>	Worse
Noise Level	<b>Quieter</b>	Louder
Point Load Capacity	<b>Higher</b>	Lower
Warranty	<b>10 Years</b>	Varies
Wet Environment Use	Limited	<b>Better</b>

#### Both Products Provide:

- Similar allowable deflection ratings (L/240)
- Comparable framing span requirements
- Excellent performance at standard 125 PSF loads

