

resinDEK®



◆ **Performance Engineered Flooring**
Mezzanine Flooring for Self-Storage Facilities

ResinDek® Composite Engineered Wood Flooring: The Smart Choice for Self-Storage

ResinDek® composite flooring panels deliver exceptional value for multi-story self-storage facilities. These engineered wood panels provide concrete-like structural strength with significant cost savings—often tens of thousands of dollars per project. Built to handle demanding loads—supporting up to 125 psf uniform loads and rolling pallet jacks weighing up to 8,000 lbs.—they're engineered for the toughest storage applications.

ResinDek panels are manufactured using eco-friendly materials, including recycled wood fibers and formaldehyde-free resins. The high-pressure manufacturing process creates exceptionally durable panels that are easy to maintain and provide an attractive, professional appearance that showcases your facility.

Whether you're constructing a new building or upgrading an existing one, ResinDek panels offer a smart flooring solution backed by a comprehensive 10-year warranty.

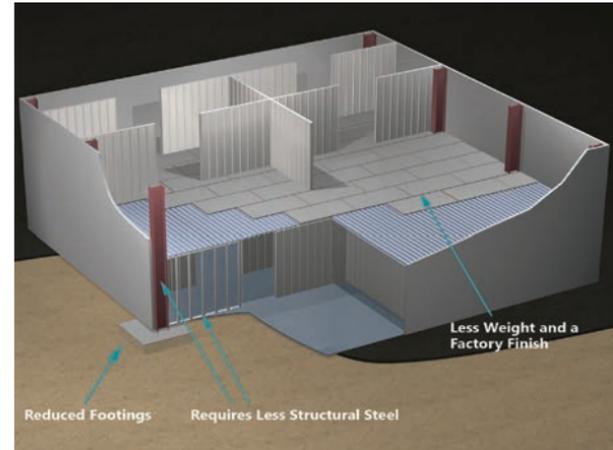


ResinDek® vs. Concrete - Providing Substantial Savings for New & Retrofit Applications

An independent cost comparison study published by Rescorla Engineering found that an elevated platform with ResinDek flooring was up to 34% less expensive than the concrete alternatives. In fact, it is quite common to save up to \$5/sqft* or more with tax benefits when using ResinDek instead of concrete. How?

ResinDek panels have the proven structural integrity and the strength you associate with a concrete floor yet offers significant savings. An independent study found that ResinDek flooring is **exponentially more cost effective than concrete**. How? Simple. .
. Less Weight + Less Footings + Less Steel + Less Time = **Real Savings**

- ResinDek is 90% lighter than concrete, allowing less steel to be used in support structure
- With ResinDek concrete footings may be significantly reduced or eliminated altogether
- Platforms using ResinDek can be designed with an allowable deflection limit of L/240, whereas concrete's allowable deflection is limited to L/360: this reduces the amount of steel required in the support structure
- Since ResinDek is supplied with a factory finish, and concrete needs time to cure, ResinDek can be installed faster
- Material cost per square foot for ResinDek is less than that of concrete



* Actual savings may vary based on project scope and location. Tax benefits are based upon estimates and the ability to categorize the mezzanine as equipment rather than a part of the building structure. Consult local building codes and tax advisor before using any information provided.

ResinDek® Panels Engineered for Self-Storage Excellence

Panel Options for Every Need

ResinDek flooring offers an economical, durable solution specifically designed for budget-conscious self-storage projects that need long-lasting performance. Each panel is custom manufactured to meet specific project requirements and dimensions, backed by comprehensive engineering support with full design services for proper specification.

ResinDek® LD - The Benchmark for Composite Engineered Flooring

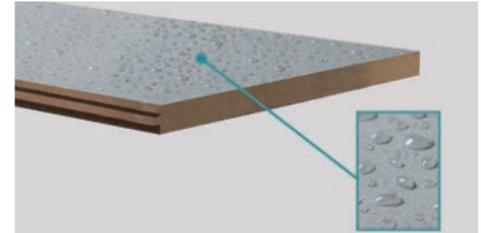
- Ideal for both new construction and retrofitting existing facilities
- ¾" thick panels support uniform loads up to 125 psf and rolling pallet jacks up to 2,000 lbs over corrugated metal decking
- Tongue-and-groove design transfers loads effectively between panels

ResinDek® WR - Water Resistant Flooring

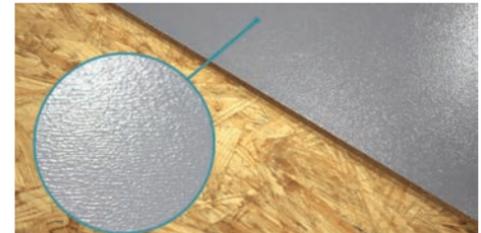
- Ideal for new construction projects exposed to outdoor elements for up to 120 days
- Suitable for high-humidity interiors and limited washdown applications
- Exceptional moisture resistance meets stringent MR90 standard
- ¾" thick panels support uniform loads up to 125 psf and rolling pallet jacks up to 2,000 lbs over corrugated metal decking

ResinDek® ReShield™ Overlay Flooring Panels

- ¼" thick panels supports 125 psf uniform loads and 3,500 lb rolling pallet jacks, while eliminating the need for complete floor replacement
- Install directly over plywood, OSB, chipboard, and unfinished ResinDek floors
- Requires no extensive demolition or preparation work for installation



ResinDek® WR Water Resistant Flooring



ResinDek® ReShield™ Overlay Flooring



ResinDek® Panel Finishes for Self-Storage Facilities

Gray Diamond Seal® Finish

Gray Diamond Seal was developed by our internal coating innovation lab and is a beautiful, long-lasting textured finish.

- Provides excellent wear, slip resistance & exceptional resistance to common stains
- Easy to clean & maintain, and will provide a showcase appearance year after year
- The formulation incorporates standard antistatic protection to minimize the build-up of electrical charges as personnel and wheeled loads travel over it

MetaGard® GVT Finish

MetaGard GVT is a steel surface that encapsulates the top and sides of the ResinDek panel and is the perfect solution for heavy wear areas in Self-Storage facilities.

- The steel is fused to the ResinDek panel with a proprietary bonding agent creating a floor that will not delaminate, has superior physical properties, is level for rolling loads, and has no sharp edges that could cut or snag objects passing over it
- ResinDek with MetaGard has been tested per ASTM D2047 standards and has been found to meet or exceed OSHA specification for slip resistance.
- Engineered to ensure a smooth panel-to-panel transition, ResinDek with MetaGard GVT panels can be used alongside other ResinDek panels without a steel surface, creating a more cost-effective solution.



Types of ResinDek® Flooring Panels for Self-Storage Facilities

ResinDek® panels come in multiple thicknesses and densities to match your specific load requirements. Custom manufactured to exacting standards; these panels can be cut to your precise specifications. Available in standard 4' × 8' sizes, with options up to 4' × 10' for maximum project flexibility and minimal waste.

Product Name	B Deck Gauge	Pallet Jack & Product Load Limits	Thickness	Moisture Resistance	Material Handling Finishes		
					UF	Gray Diamond Seal® or ESD	MetaGard® GVT
	ga / mm	lbs / kg	in / mm				
ResinDek® LD	20 / 0.9	up to 2,000 / 910	0.75 / 19	MR50	✓	✓	✓
ResinDek® MD ResinDek® MD	20 / 0.9 18 / 1.2	up to 2,500 / 1,135 up to 3,500 / 1,590	0.75 / 19	MR50	✓	✓	✓
ResinDek® HD	18 / 1.2	up to 4,500 / 2,045	0.75 / 19	MR50	✓	✓	✓
ResinDek® WR	20 / 0.9	up to 2,000 / 910	0.75 / 19	MR90	✓	✓	✗
ResinDek® MAX	18 / 1.2	up to 8,000 / 3,360	1.50 / 38	MR50	✓	✓	✓
ResinDek® Xspan® ¹	N/A	up to 3,000 lbs / 1,365	1.125 / 28	MR50	✓	✓	✓
ResinDek® Xspan® FR ¹ Fire Retardant Panel	N/A	up to 3,000 lbs / 1,365	1.125 / 28	MR50	✓	✓	✓
ResinDek® ReShield™ ²	N/A	up to 3,500 / 1,590	0.25 / 6	MR50	✗	✓	✗

NOTES FOR TABLE:

1 ResinDek Xspan and Xspan FR load values above are calculated with 375 psf uniform loads at 16" / 406 mm center supports

2 ResinDek ReShield allowable loads are dependent upon the substrate that it is being installed on

- For flooring used with corrugated B Deck: Please note load values above are calculated on 36" (914 mm) beam spacing, increased spacing will increase deflection and/or decrease capacity.
- For flooring solutions with no B Deck: All allowable loads are based on a two span condition. Uniform load values are based on L/240 deflections, any deviation can positively or negatively impact these values. Please contact us for other span conditions. The calculations and load tables above have been compiled based on specified calculation methods and assumptions. The loads provided are for the purpose of information for preliminary studies and can not be used as a reference in structural studies. Contact an accredited engineering office or architect to perform a complete stability analysis.

SCS Global Certifications, LEED® and FSC®

As part of our commitment to environmental sustainability, all ResinDek® panels are certified by SCS Global Services for use of recycled materials and to have no added formaldehyde. They also contribute towards earning points for LEED® qualified buildings. ResinDek® panels may also be specified for construction with FSC® certified materials (FSC® License Code FSC-C124474).

Flame Spread Index and UL Classification

When tested in accordance with ASTM E84, the ResinDek panels plus the corrugated metal deck assembly meet Class A criteria for an interior finish. ResinDek Xspan FR is a fire resistant panel and meets ASTM E-84 Class “A” flame spread less than 25, meets UK Class “0”, and meets European standards B-Class (B_{FL}-s1 | B-s1,d0) for both top and bottom. UL Classification ResinDek® flooring system can be UL Classified for up to a 2-hour fire rated assembly under UL Design No. L701 and UL File No. R39265.

Uniform Evaluation Service Report

ResinDek floor panels have been independently evaluated and approved for use in Types I-V construction and as part of a fire resistance rated assembly by the IAPMO Uniform Evaluation Services. United States ER Number 467. Canada ER Number UEL 5027.

Environmental Product Declaration

ResinDek HD and ResinDek Xspan have received an Environmental Product Declaration (EPD) from NSF, recognizing their sustainability and environmental transparency. With EPD certification, ResinDek HD and ResinDek Xspan support green building initiatives while delivering the strength, durability, and performance needed for industrial and commercial applications.

ResinDek® 10-Year Product Warranty

ResinDek panels are backed by our comprehensive design engineering services and a 10-year product warranty. The panels are warranted to be free from defect, structurally sound, and able to safely carry the specified design loads. The warranty will flow through and transfer to the end user for the entire period of the warranty.

ResinDek® Corrugated Metal Decking - B Deck

We recommend that a minimum of 20 gauge metal B Deck be used on all ResinDek® flooring projects (with the exception of Xspan®) and a minimum of 18 gauge when live and dead pallet jack loads exceed 2,500 lbs.

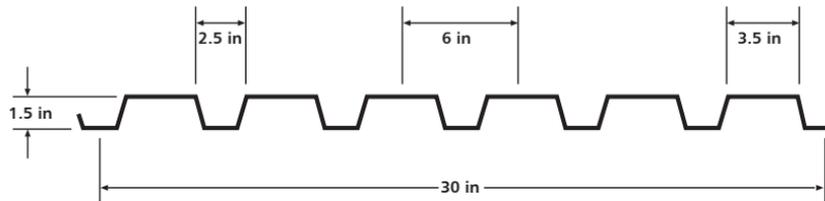
B-Deck 1.5" Allowable Uniform Loads (PSF) / Loads that Produce L/240 Deflection

# of Spans	Gauge	Min Yield (KSI)	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"
Single	20	60	565 / 462	415 / 291	318 / 195	251 / 137	203 / 100	168 / 75	141 / 58	120 / 45	104 / 36	90 / 30
	18	60	792 / 658	582 / 414	445 / 278	352 / 195	285 / 142	236 / 107	198 / 82	169 / 65	145 / 52	127 / 42
	16	33	575*	422*	323*	255*	207 / 186	171 / 140	144 / 108	122 / 85	106 / 68	92 / 55
Double	20	60	563*	418*	322*	256*	208*	172*	145*	124 / 116	107 / 93	93 / 75
	18	60	788*	586*	452*	359*	292*	242*	204 / 202	174 / 159	150 / 127	131 / 103
	16	33	552*	410*	317*	252*	205*	170*	143*	122*	105*	92*
Triple	20	60	692*	516*	399 / 388	317 / 273	258 / 199	214 / 149	180 / 115	154 / 91	133 / 72	116 / 59
	18	60	966*	722*	558 / 534	445 / 375	362 / 273	300 / 205	253 / 158	216 / 124	187 / 100	163 / 81
	16	33	676*	505*	391*	311*	254*	210*	177*	152*	131 / 128	114 / 104

Note: Allowable Uniform Load shown only. L/240 Exceeds Allowable Load.

B-Deck Physical Properties

Gauge	Thickness (in)	Weight (lb/ft ²)	
		Painted	Galvanized
20	.0358	2.1	2.2
18	.0474	2.8	2.9
16	.0598	3.4	3.5



ResinDek® Corrugated Metal Decking - N Deck

ResinDek® provides corrugated metal deck products in a variety of profiles, thicknesses, yield strengths and finishes. We will help you optimize sizes, runs, steel thicknesses, corrugated profiles, and beam spacings.

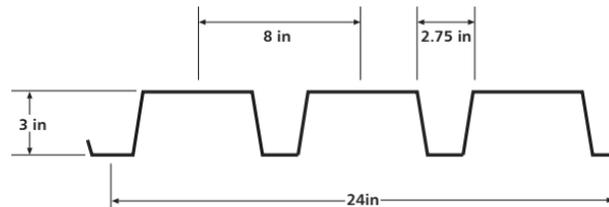
N-Deck 3.0" Allowable Uniform Loads (PSF) / Loads that Produce L/240 Deflection

# of Spans	Gauge	Min Yield (KSI)	84"	90"	96"	102"	108"	116"	120"	126"	132"	138"
Single	20	60	219 / 160	191 / 130	168 / 107	149 / 89	133 / 75	119 / 64	108 / 55	98 / 47	89 / 41	81 / 36
	18	60	325 / 236	283 / 192	249 / 158	220 / 132	196 / 111	176 / 94	159 / 81	144 / 70	132 / 61	120 / 53
	16	40	290*	253*	222*	197 / 186	175 / 157	157 / 133	142 / 114	129 / 99	117 / 86	107 / 75
Double	20	60	224*	209*	189*	168*	150*	135*	122*	111*	101*	92*
	18	60	349*	304*	268*	238*	213*	191*	173*	157*	143*	131*
	16	40	305*	266*	234*	208*	186*	167*	151*	137*	125*	114*
Triple	20	60	255*	238*	223*	208 / 192	186 / 161	167 / 137	151 / 118	137 / 102	125 / 88	115 / 77
	18	60	430*	378*	333 / 323	295 / 269	264 / 227	237 / 193	215 / 165	195 / 143	178 / 124	163 / 109
	16	40	378*	330*	291*	258*	231*	207*	187*	170*	155*	142*

Note: Allowable Uniform Load shown only. L/240 Exceeds Allowable Load.

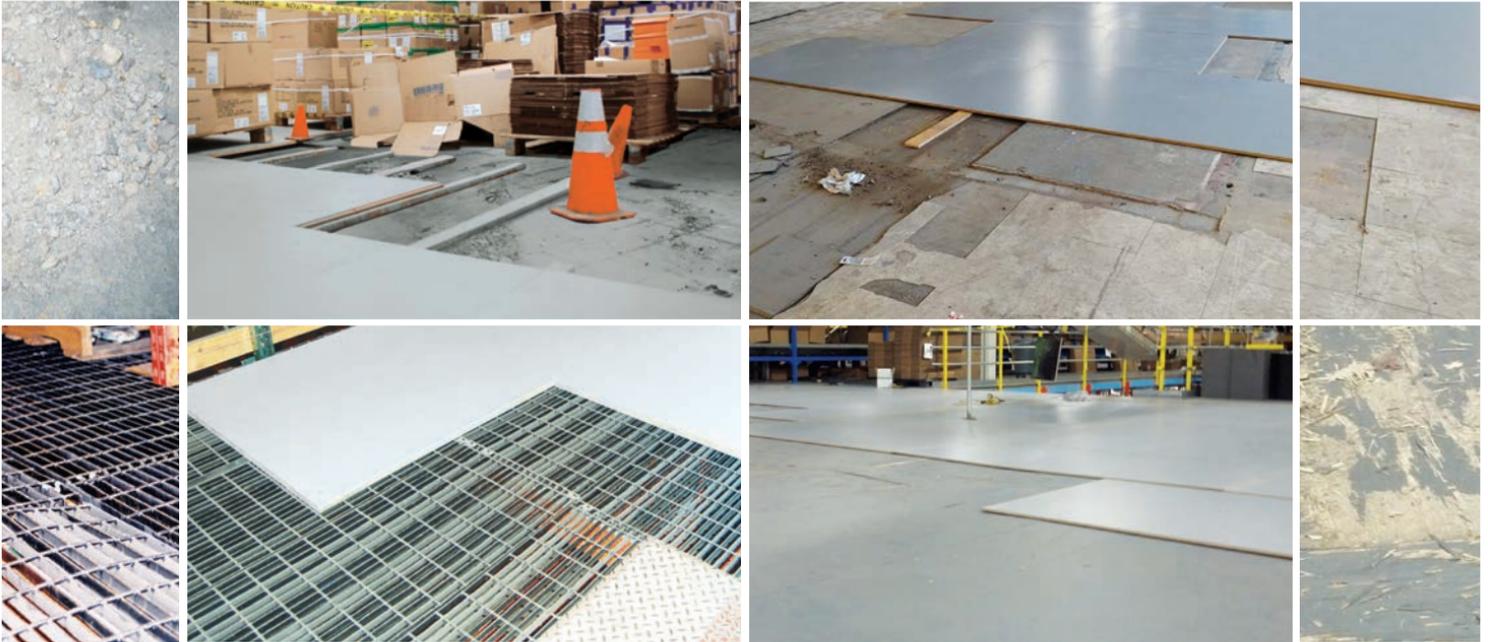
N-Deck Physical Properties

Gauge	Thickness (in)	Weight (lb/ft ²)	
		Painted	Galvanized
20	.0358	2.5	2.5
18	.0474	3.2	3.3
16	.0598	4.1	4.2



ResinDek® Panels - The Rework Solution for Self-Storage Conversion Projects

If you are converting an existing facility ResinDek panels are the optimal choice. ResinDek panels can be installed over cracked concrete, floors that are delaminating, plywood that is splintering and even over damaged bar grate.

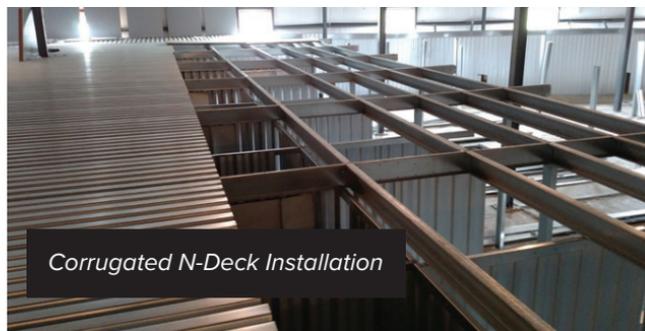
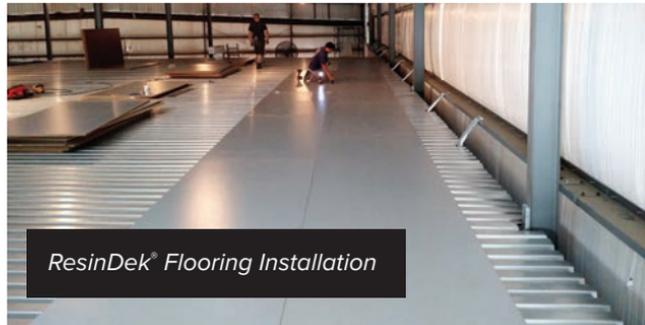


Success Story: Two Floors Built Simultaneously Using ResinDek® Instead of Concrete

Peter Ferraro, owner and developer of Tarrytown Self-Storage used ResinDek for the first time on an existing building he converted into a self-storage facility. The two story building had a footprint of 17,000 sqft. To maximize the rentable space, he raised the roof 8' to allow for the addition of the 3rd floor.

Mr. Ferraro stated, *“When I saw ResinDek I immediately realized the advantages of it. ResinDek panels provided a substantial savings in dead weight compared to concrete and can easily handle the load requirement of 125 psf. Had I gone with concrete on the 3rd floor I would have needed additional pilings and more steel in the support structure.*

However, for us an even bigger advantage is that ResinDek panels allowed us to build faster than we could have with concrete. We were able to build the 2nd floor and 3rd floor simultaneously, because we didn't have to wait for the concrete to cure. This allowed all of the trades to work on multiple floors at the same time, the electrician and the plumber could keep working, so everything flowed smoothly. As an added benefit the finish of the ResinDek panel has a nice color that reflects light well. Concrete has a tendency to crack. I definitely see the savings of time and money with ResinDek compared to concrete”.



ResinDek® Flooring Solution



10-Year Product Warranty

ResinDek panels are warranted to be free from defect, structurally sound, and able to safely carry the specified design loads. The warranty will flow through and transfer to the end user for the entire period of the warranty.

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