

ResinDek® Xspan® Product Description

ResinDek Xspan panels have been extensively tested and approved by IBC Code Officials for use as a structural flooring system in certain applications where a metal corrugated substructure is not required. Structural supports must be reviewed and approved by Cornerstone Specialty Wood Products, LLC® and must be capable of supporting floor loads at specific intervals. Contact us or your local building code official.

ResinDek Xspan offers the look, performance, and durability of the ResinDek flooring system. This engineered wood flooring panel is designed for heavy equipment, rolling pallet jacks, AGVs and AMRs. ResinDek Xspan is manufactured with mostly recycled and recovered wood fibers, environmentally friendly resins with no added urea formaldehyde, and a wax emulsifier for moisture resistance. The ingredients are combined and compressed under extremely high pressure and temperature, resulting in a panel with superior physical properties. ResinDek flooring panels are custom manufactured and available in sizes up to 4' x 10' (1206 mm x 3048 mm). Each panel features a tongue-and-groove configuration that effectively promotes panel to panel wheel load transfer. When required, tongue-and-groove configurations are available on all 4 sides or with square edges.

SCS Global Certifications, LEED® and FSC®

ResinDek Xspan panels are certified to have No Added Formaldehyde and conforms to SCS Recycled Content Standard V7-0. ResinDek panels can contribute towards earning points for LEED® qualified buildings. When required ResinDek panels are available with FSC® Certification. FSC® License Code FSC-C124474.

ResinDek® Xspan® Specifications

Manufactured by Cornerstone Specialty Wood Products, LLC®, ResinDek Xspan shall be 1.125" thick and come standard with an unfinished underside and capable of supporting the designed weight capacities per the load span table below. The recommended finish shall be determined based upon the type and volume of traffic traveling on the floor.

For detailed ResinDek Xspan Master Specifications please email or call Cornerstone Specialty Wood Products.

ResinDek® Xspan® Flooring Panels					
1-1/8" Thick Single Panel Solution - No Corrugated B-Deck Required					
Beam Spacing	16"	24"	32"	40"	48"
Uniform Loads (lbs/ft²)	375	225	125	75	50
Total Pallet Jack & Product Load (lbs)	3000	2,700	2,300	2,000	1,500
Total Robot & Product Load (lbs)	2500	2,000	1,500	N/A	N/A
Robot Contact Pressure (psi)	900	750	600	N/A	N/A

NOTES:

- Testing was completed with polyurethane caster wheels and any deviation or alternative wheels such as crowned, steel or plastic could void the warranty. Contact CSWP for more information.
- Robotic contact pressure values are to be used as a guide. Consult CSWP for specific robot usage.
- 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 Cornerstone for other span conditions. The calculations and load table above have been compiled based on specified calculation methods and assumptions. The loads provided are for the purpose of information for preliminary studies and cannot be used as a reference in structural studies. Contact an accredited engineering office or architect to perform a complete stability analysis.

ResinDek® Xspan® Quick Specs

Panel Thickness: 1-1/8"

Panel Weight: 5.2 psf or 6.6 psf with MetaGard® finish

Pallet Jack & Product Load Limits

- Pallet jack rolling loads up to 2,300 lbs with 125 psf uniform loads at 32" center supports

Mobile Robot & Product Load Limits

- Single Panel Solution (No Corrugated B-Deck) AGV & AMR loads up to 1,500 lbs with 125 psf uniform loads at 32" center support
- Robot contact pressure is 600 psi

Available Finishes

For Heavy Equipment, Storage, Rolling Carts & Pallet Jacks

- Gray Diamond Seal® Coating
- Gray Diamond Seal® ESD Coating
- MetaGard® GVT Steel Decking Surface
- Unfinished (UF)

For AGV & AMR Robotic Traffic

- TriGard® ESD Coating
- TriGard® ESD Ultra Coating
- MetaGard® SST Steel Decking Surface

ResinDek® Options

- Collated Screws
- Custom Tongue & Groove Configurations
- Available in sizes up to 4' x 10' (ResinDek with MetaGard max size is 4' x 8')

Our Services

- CAD drawings that optimize materials
- Pre-job planning and on-site consultations
- Installation support for training
- Logistics support to coordinate deliveries
- Cut to size panels
- Custom testing for specific applications

10-Year Product Warranty

Cornerstone Specialty Wood Products, LLC® hereby warrants ResinDek Xspan panels 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.