

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. It meets ASTM E-84 Class C flame spread rating on top and bottom and meets EN 13501-1 Class D_{fl}-s1 | D-s1,d0 for both top and bottom. 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 flooring panel offers the look, performance, and durability of the ResinDek flooring system and 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 1206 mm x 3048 mm. Each panel features a tongue-and-groove configuration, effectively promoting 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 28 mm 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					
28 mm Thick Single Panel Solution - No Corrugated B-Deck Required					
Beam Spacing	400mm	600mm	800mm	1000mm	1200mm
Uniform Loads (kN/m ²)	18.1	10.9	6.1	3.8	2.5
Total Pallet Jack & Product Load (kgs)	1,365	1,230	1,045	910	685
Total Robot & Product Load (kgs)	1,135	910	685	N/A	N/A
Robot Contact Pressure (MPa)	6.2	5.2	4.1	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: 28 mm

Panel Weight: 25.4 kg/m² or 32.3 kg/m² with MetaGard® finish

Pallet Jack & Product Load Limits

- Pallet jack rolling loads up to 1,045 kgs with 6.1 kN/m² uniform loads at 800 mm center supports

Mobile Robot & Product Load Limits

- Single Panel Solution (No Corrugated B-Deck) AGV & AMR loads up to 685 kgs with 6.1 kN/m² uniform loads at 800 mm center support
- Robot contact pressure is 4.1 MPa

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 1206 mm x 3048 mm (ResinDek with MetaGard max size is 1206 mm x 2438 mm)
- White reflective bottom side

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® warrants ResinDek® panels listed in its current published warranty coverage documentation to be free from defect, structurally sound, and able to safely carry specified design loads. For more information, visit our website warranty page..