



# RESINDEK® XSPAN® WITH FR STEEL BOTTOM FLOORING PANEL

## ResinDek® Xspan® with FR Steel Bottom Product Description

ResinDek Xspan with FR Steel Bottom panels incorporate a steel bottom layer for significantly higher static and dynamic load capacity. It meets ASTM E-84 Class A flame spread rating on the bottom and Class C on the top, and meets EN 13501-1 Class B<sub>fl</sub>-s1 (bottom) and D<sub>fl</sub>-s1,d0 (top). ResinDek Xspan with FR Steel Bottom 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 with FR Steel Bottom is designed for heavy equipment, rolling pallet jacks, AGVs and AMRs. Each panel 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. Each panel features a tongue-and-groove configuration that effectively promotes panel to panel wheel load transfer.

## SCS Global Certifications, LEED® and FSC®

ResinDek Xspan with FR Steel Bottom 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® with FR Steel Bottom Specifications

Manufactured by Cornerstone Specialty Wood Products, LLC®, ResinDek Xspan with FR Steel Bottom shall be 1.125" thick and capable of supporting the designed weight capacities per the table below. ResinDek Xspan with FR Steel Bottom comes standard with a steel bottom side. The recommended finish shall be determined based upon the type and volume of traffic traveling on the floor. **For detailed ResinDek Xspan with FR Steel Bottom Master Specifications contact Cornerstone Specialty Wood Products.**

ResinDek® Xspan® with FR Steel Bottom 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)	450	350	275	175	125
Total Pallet Jack & Product Load (lbs)	3,800	3,500	3,000	2,600	2,000
Total Robot & Product Load (lbs)	3,500	3,000	2,500	1,500	N/A
Robot Contact Pressure (psi)	1,250	1,000	900	600	N/A

### NOTES:

- 26 gauge (0.45mm) steel was used for these calculations above.
- Testing was completed with polyurethane caster wheels - any deviation or alternative wheels such as crowned, steel or plastic could void 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. 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.

## Quick Specs

**Panel Thickness:** 1-1/8" (28mm)

**Panel Weight:** 6 psf (29.3 kg/m2) or 7.4 psf (36.1 kg/m2) with MetaGard® finish

**Steel Bottom:** 26 gauge (0.45mm) steel was used for the load limit calculations below.

### Pallet Jack & Product Load Limits

- Pallet jack rolling loads up to 3,000 lbs with 275 psf uniform loads at 32" center supports

### Mobile Robot & Product Load Limits

- Single Panel Solution (No Corrugated B-Deck) AGV & AMR loads up to 2,500 lbs with 275 psf uniform loads at 32" center support
- Robot contact pressure is 900 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' (1206 mm x 3048 mm) ResinDek with MetaGard max size is 4' x 8' (1206 mm x 2438 mm)
- White reflective steel 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.



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