

ResinDek® Flooring Panels for AGVs & AMRs

Single Panel Solution - No Corrugated B-Deck Required

Product Name

Beam Spacing

400 mm

600 mm

800 mm

1,000 mm

ResinDek® HD

Panel Thickness: 19 mm

For AMRs only

Uniform Loads	10.9 kN/m ²	6.1 kN/m ²
Total Robot & Product Load	345 kgs	230 kgs
Contact Pressure	5.2 MPa	3.4 MPa

ResinDek® Xspan

Panel Thickness: 28 mm

Uniform Loads	18.1 kN/m ²	10.9 kN/m ²	6.1 kN/m ²
Total Robot & Product Load	1,135 kgs	910 kgs	685 kgs
Contact Pressure	6.2 MPa	5.2 MPa	4.1 MPa

ResinDek® Xspan FR

Panel Thickness: 28 mm

Uniform Loads	18.1 kN/m ²	10.9 kN/m ²	6.1 kN/m ²
Total Robot & Product Load	1,135 kgs	910 kgs	685 kgs
Contact Pressure	6.2 MPa	5.2 MPa	4.1 MPa

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.
- Contact pressure values are to be used as a guide. Please consult factory 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 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.