ResinDek Flooring Panel	Substructure	Pallet Jack + Product Load Limits (up to)	Robot + Product Load Limits (up to)	Maximum Robot Contact Pressure	Thickness	Moisture Resistance
	mm	kg	kg	MPa	mm	ⓘ
LD [1]	0.9 / B-Deck	910	230	3.4	19	MR50
MD	0.9 / B-Deck	1,135	910	5.2	19	MR50
	1.2 / B-Deck	1,590	1,365	6.9		
HD [1,2]	1.2 / B-Deck	2,045	1,815	8.3	19	MR50
	Steel Beams, Purlins	N/A	345	5.2		
WR [1]	0.9 / B-Deck	910	230	3.4	19	MR90
MAX	1.2 / B-Deck	3,360	2,725	10.3	38	MR50
Xspan® [3] / Xspan® FR [3]	Steel Beams, Purlins	1,365	1,135	6.2	28	MR50
ReShield™ [4]	See Note Below**	1,590	1,365	6.9	6	MR50

[1] Not Suitable for AGVs

[2] ResinDek HD robot and product load values above are calculated with 225 psf uniform loads at 16" / 406 mm center supports

[3] ResinDek Xspan load values above are calculated with 375 psf uniform loads at 16" / 406 mm center supports

[4] ResinDek ReShield allowable loads are dependent upon the substrate that is being installed on - contact us for more information

· Contact pressure values are to be used as a guide. Please consult factory for specific robot usage.

For flooring solutions with B-Deck: Load values above are calculated on 36" / 914 mm beam spacing, increased spacing will reduce capacity. Floor deflection is L/240.

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.