

TROPICAL FOREST PRODUCTS IPE DECKING SIMPLE SPANS

DECKING STRUCTURAL DESIGN INFORMATION TROPICAL FOREST PRODUCTS IPE SIMPLE SPAN

This deck span calculator is designed to assist in the specification process. It is not a warranty of fitness or an assumption of liability.

It is the responsibility of the end user to consult local building codes and to verify compliance with a licensed engineer.

MODULUS OF ELASTICITY		3010000	3010000	3010000	3010000	3010000
BENDING - Allowable		3750	3750	3750	3750	3750
SHEAR - Allowable		425	425	425	425	425
SPECIES		IPE	IPE	IPE	IPE	IPE
WEIGHT PER CUBIC FOOT (lbs.)		75	75	75	75	75
DECKING THICKNESS (inches)		0.75	0.75	0.75	1	1.5
DECKING SPAN (inches)		12	16	24	36	60
DEAD LOAD		0.0326	0.0326	0.0326	0.0434	0.0651
LIVE LOAD/PSF	100	0.6944	0.6944	0.6944	0.6944	0.6944
TOTAL LOAD	W	0.7270	0.7270	0.7270	0.7378	0.7595
SHEAR	V	4.3620	5.8160	8.7240	13.2813	22.7865
MAXIMUM MOMENT	M	13.0859	23.2639	52.3438	119.5313	341.7969
AREA	A	0.7500	0.7500	0.7500	1.0000	1.5000
SECTION	S	0.0938	0.0938	0.0938	0.1667	0.3750
INERTIA	I	0.0352	0.0352	0.0352	0.0833	0.2813
	Fb		248.1481	558.3333	717.1875	911.4583
	Fv	8.7240	11.6319	17.4479	19.9219	22.7865
	Deflection in Inches					
		0.002	0.006	0.030	0.064	0.151
	Fb					
	OKAY					
	Fv					
	OKAY					
L/360	L/360	0.033	0.044	0.067	0.100	0.167
	Deflection	OK	OK	OK	OK	OK