

TECHNICAL BULLETIN

Ipe Decking Simple Spans with Snow Load

STRUCTURAL DESIGN INFORMATION - Simple Spans with Snow Load

DECKING STRUCTURAL DESIGN INFORMATION TROPICAL FOREST PRODUCTS - IPE

SIMPLE SPAN

MODULUS OF ELASTICITY		3010000	3010000	3010000	3010000	3010000	3010000	3010000
BENDING - Allowable		3750	3750	3750	3750	3750	3750	3750
SHEAR - Allowable		425	425	425	425	425	425	425
SPECIES		IPE	IPE	IPE	IPE	IPE	IPE	IPE
WEIGHT PER CUBIC FOOT (lbs.)		75	75	75	75	75	75	75
DECKING THICKNESS (inches)		0.75	0.75	0.75	1	1.5	1.5	2.5
DECKING SPAN (inches)		12	16	24	36	48	60	72
DEAD LOAD		0.0326	0.0326	0.0326	0.0434	0.0651	0.0651	0.1085
LIVE LOAD/PSF	100	0.6944	0.6944	0.6944	0.6944	0.6944	0.6944	0.6944
TOTAL LOAD	W	0.7270	0.7270	0.7270	0.7378	0.7595	0.7595	0.8030
SHEAR	V	4.3620	5.8160	8.7240	13.2813	18.2292	22.7865	28.9063
MAXIMUM MOMENT	M	13.0859	23.2639	52.3438	119.5313	218.7500	341.7969	520.3125
AREA	A	0.7500	0.7500	0.7500	1.0000	1.5000	1.5000	2.5000
SECTION	S	0.0938	0.0938	0.0938	0.1667	0.3750	0.3750	1.0417
INERTIA	I	0.0352	0.0352	0.0352	0.0833	0.2813	0.2813	1.3021
	Fb	139.5833	248.1481	558.3333	717.1875	583.3333	911.4583	499.5000
	Fv	8.7240	11.6319	17.4479	19.9219	18.2292	22.7865	17.3438
Deflection in Inches		0.002	0.006	0.030	0.064	0.062	0.151	0.072
		Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY
		Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY
L/360	L/360	0.033	0.044	0.067	0.100	0.133	0.167	0.200
	Deflection	OK	OK	OK	OK	OK	OK	OK

TROPICAL

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 verify compliance with a licensed engineer.