

DECKING STRUCTURAL DESIGN INFORMATION BLACK LABEL - IPE

SIMPLE SPAN						
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)		16	18	24	36	48
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	5.8160	6.5430	8.7240	13.2813	18.2292
MAXIMUM MOMENT	M	23.2639	29.4434	52.3438	119.5313	218.7500
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	314.0625	558.3333	717.1875	583.3333
	Fv	11.6319	13.0859	17.4479	19.9219	18.2292
	Deflection in Inches	0.006	0.009	0.030	0.064	0.062
		Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY
		Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY
L/360	L/360	0.044	0.050	0.067	0.100	0.133
	Deflection	OK	OK	OK	OK	OK

This deck span calculator is designed to assist in the specification process. It is not a warranty of fitness or a
It is the responsibility of the end user to consult local building codes and verify compliance with a licensed e

3010000	3010000
3750	3750
425	425
IPE	IPE
75	75
1.5	2.5
60	72
0.0651	0.1085
0.6944	0.6944
0.7595	0.8030
22.7865	28.9063
341.7969	520.3125
1.5000	2.5000
0.3750	1.0417
0.2813	1.3021
911.4583	499.5000
22.7865	17.3438
0.151	0.072
Fb OKAY	Fb OKAY
Fv OKAY	Fv OKAY
0.167	0.200
OK	OK
assumption of liability.	
ngineer.	