

# BLACK LABEL™ IPE DECKING SIMPLE SPANS

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