

# MAXIMO™

## TECHNICAL BULLETIN Ipe Decking Simple Spans with Snow Load

### STRUCTURAL DESIGN INFORMATION - vSimple spans with Snow Load

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.

<b>SIMPLE SPAN</b>			3010000	3010000	3010000	3010000	3010000	3010000	3010000
MODULUS OF ELASTICITY			3750	3750	3750	3750	3750	3750	3750
BENDING - Allowable			425	425	425	425	425	425	425
SHEAR - Allowable									
<b>SPECIES</b>			IPE	IPE	IPE	IPE	IPE	IPE	IPE
WEIGHT PER CUBIC FOOT (lbf)			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	0	72
DEAD LOAD			0.0326	0.0326	0.0326	0.0434	0.0651	0.0651	0.1085
LIVE LOAD/PSF			100	100	100	100	100	100	100
TOTAL LOAD			0.6944	0.6944	0.6944	0.6944	0.6944	0.6944	0.6944
TOTAL LOAD			W	0.727	0.727	0.727	0.7378	0.7595	0.8030
SHEAR			V	4.3620	5.8160	8.7240	13.2813	18.2292	22.7865
MAXIMUM MOMENT			M	13.0859	23.2639	52.3438	119.5313	218.7500	341.7696
AREA			A	0.7500	0.7500	0.7500	1.0000	1.5000	1.5000
SECTION			S	0.0938	0.0938	0.0938	0.1667	0.3750	0.3750
INERTIA			I	0.0352	0.0352	0.0352	0.0833	0.2813	0.2813
			Fb	139.5833	248.1481	558.333	717.1875	583.3333	911.4583
			Fv	8.72040	11.6319	17.4479	19.9219	18.2292	22.7865
				0.002	0.006	0.030	0.064	0.062	0.151
				Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY	Fb OKAY
				Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY	Fv OKAY
			L/360	0.033	0.044	0.067	0.100	0.133	0.167
			Deflection	OK	OK	OK	OK	OK	OK