

Ipe Decking Simple Spans Snow Load – Technical Bulletin

STRUCTURAL DESIGN INFORMATION - Simple Span with Snow Load

Decking- Tropical Forest Products IPE Species

		3010000	3010000	3010000	3010000	3010000
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		75	75	75	75	75
DECKING THICKNESS (Net Inches)		0.75	1	1.5	2.5	3.5
Decking SPAN (Net Inches)		16	24	36	60	84
DEAD LOAD-Decking		0.0326	0.0434	0.0651	0.1085	0.1519
DEAD LOAD- <i>Assumes Snow Load 300lb.</i>		2.0834	2.0834	2.0834	2.0834	2.0834
LIVE LOAD/PSF	100	0.6944	0.6944	0.6944	0.6944	0.6944
TOTAL LOAD	W	2.8104	2.8212	2.8429	2.8864	2.9298
SHEAR	V	22.4832	33.8550	51.1731	86.5905	123.0497
MAXIMUM MOMENT	M	89.9327	203.1298	460.5577	1298.8581	2584.0432
AREA	A	0.7500	1.0000	1.5000	2.5000	3.5000
SECTION	S	0.0938	0.1667	0.3750	1.0417	2.0417
INERTIA	I	0.0352	0.0833	0.2813	1.3021	3.5729
	Fb	959.2820	1218.7788	1228.1538	1246.9038	1265.6538
	Fv	44.9663	50.7825	51.1731	51.9543	52.7356
Deflection (inches)		0.023	0.049	0.073	0.124	0.177
	<i>Fb</i>	<i>OKAY</i>	<i>Fb OKAY</i>	<i>Fb OKAY</i>	<i>Fb OKAY</i>	<i>Fb OKAY</i>
	<i>Fv OKAY</i>	<i>Fv OKAY</i>	<i>Fv OKAY</i>	<i>Fv OKAY</i>	<i>Fv OKAY</i>	<i>Fv OKAY</i>
ASHTO Standard	L/360	0.044	0.067	0.100	0.167	0.233
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 assumption of liability.

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