

DECKING STRUCTURAL DESIGN INFORMATION											
SIMPLE SPAN											
MODULUS OF ELASTICITY		3,010,000	3,030,000	2,435,000	3,040,000	2,030,000	2,140,000	1,800,000	1,400,000	650,000	650,000
BENDING		3750	2270	2550	2090	3600	3700	1200	1050	4000	4000
SHEAR		425	425	305	425	435	430	180	75	1000	1000
		<b>Premium</b>	<b>Premium</b>	<b>Premium</b>	<b>Premium</b>	<b>Premium</b>	<b>Premium</b>	<b>#1 Better</b>	<b>Southern</b>	<b>Norx</b>	<b>Norx</b>
SPECIES		<b>Ipe</b>	<b>Cumaru</b>	<b>Garapa</b>	<b>GreenHeart</b>	<b>Angelim</b>	<b>Azobe</b>	<b>Douglas Fir</b>	<b>Yellow Pine</b>	<b>5/4x6</b>	<b>2x6</b>
WEIGHT PER CUBIC FOOT		75	76	56	77	46,9	68,8	34	33	69,857	69,857
DECKING THICKNESS (in.)		<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	<b>2,5</b>	1	1,5
STRINGER SPAN (in inches)		<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>
DEAD LOAD		0,1085	0,1100	0,0810	0,1114	0,0679	0,0995	0,0492	0,0477	0,0404	0,0606
LIVE LOAD in lbs.	<b>10000</b>	69,4444	69,4444	69,4444	69,4444	69,4444	69,4444	69,4444	69,4444	69,4444	69,4444
TOTAL LOAD	<b>W</b>	69,5530	69,5544	69,5255	69,5558	69,5123	69,5440	69,4936	69,4922	69,4849	69,5051
SHEAR	<b>V</b>	765,0825	765,0984	764,7801	765,1143	764,6353	764,9838	764,4300	764,4141	764,3336	764,5559
MAXIMUM MOMENT	<b>M</b>	4207,9536	4208,0411	4206,2905	4208,1286	4205,4940	4207,4109	4204,3649	4204,2773	4203,8347	4205,0576
AREA	<b>A</b>	2,5000	2,5000	2,5000	2,5000	2,5000	2,5000	2,5000	2,5000	1,0000	1,5000
SECTION	<b>S</b>	1,0417	1,0417	1,0417	1,0417	1,0417	1,0417	1,0417	1,0417	0,1667	0,3750
INERTIA	<b>I</b>	1,3021	1,3021	1,3021	1,3021	1,3021	1,3021	1,3021	1,3021	0,0833	0,2813
	<b>Fb</b>	4039,6354	4039,7194	4038,0389	4039,8035	4037,2742	4039,1144	4036,1903	4036,1063	25223,0082	11213,4869
	<b>Fv</b>	459,0495	459,0590	458,8681	459,0686	458,7812	458,9903	458,6580	458,6484	1146,5004	764,5559
Deflection in Inches		0,054	0,054	0,067	0,054	0,080	0,076	0,090	0,116	3,913	1,160
		<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>	<i>Fb NO GOOD</i>
		<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv NO GOOD</i>	<i>Fv OKAY</i>
L/360		0,061	0,061	0,061	0,061	0,061	0,061	0,061	0,061	0,061	0,061
<b>Deflection</b>		OK	OK	NO GOOD	OK	NO GOOD	NO GOOD	NO GOOD	NO GOOD	NO GOOD	NO GOOD
<b>Other Technical Data</b>											
Coefficient of Friction Neolite (Wet)		0,69	0,69							0,66	0,66