

Simply Supported - Single Point Load

	Center	Load (pounds)						
		50	100	200	500	1000	1500	2000
King StarBoard® 1/4"	8"	.239"	.389"	.646"	>1.00"			
	16"	.639"	>1.00"					
	24"	>1.00"						
King StarBoard® 1/2"	8"	.054"	.071"	.116"	.276"	.580"	.919"	>1.00"
	16"	.094"	.201"	.389"	.913"	>1.00"		
	24"	.233"	.471"	.918"	>1.00"			
King StarBoard® 3/4"	8"	.015"	.021"	.036"	.090"	.183"	.300"	.540"
	16"	.037"	.083"	.149"	.355"	.783"	>1.00"	
	24"	.110"	.203"	.334"	.754"	>1.00"		
King StarBoard® 1"	8"	ND	ND	.021"	.044"	.075"	.112"	.148"
	16"	ND	.081"	.090"	.183"	.320"	.471"	.532"
	24"	.082"	.118"	.171"	.340"	.664"	>1.00"	
King StarBoard® 1-1/2"	8"	ND	ND	ND	.035"	.065"	.104"	.136"
	16"	ND	ND	.079"	.143"	.181"	.216"	.260"
	24"	.075"	.111"	.127"	.185"	.269"	.356"	.461"
King StarBoard® ST 1/4"	8"	.147"	.255"	.436"	.863"	>1.00"		
	16"	.488"	.744"	>1.00"				
	24"	>1.00"						
King StarBoard® ST 1/2"	8"	.047"	.088"	.092"	.209"	.459"	.686"	.907"
	16"	.085"	.195"	.359"	.771"	>1.00"		
	24"	.192"	.384"	.746"	>1.00"			
King StarBoard® ST 3/4"	8"	.040"	.080"	.089"	.120"	.173"	.235"	.319"
	16"	.025"	.053"	.091"	.215"	.434"	.716"	.962"
	24"	.100"	.148"	.339"	.662"	>1.00"		
King StarBoard® ST 1"	8"	ND	ND	.056"	.072"	.098"	.125"	.161"
	16"	ND	ND	.085"	.181"	.290"	.393"	.518"
	24"	.094"	.142"	.202"	.348"	.645"	.931"	>1.00"
King StarBoard® ST 1-1/2"	8"	ND	ND	ND	.068"	.090"	.114"	.152"
	16"	ND	ND	.078"	.143"	.190"	.228"	.263"
	24"	.067"	.111"	.137"	.198"	.281"	.373"	.472"
King StarBoard® AS 1/2"	8"	.056"	.100"	.153"	.334"	.665"	>1.00"	
	16"	.154"	.283"	.518"	>1.00"			
	24"	.301"	.609"	>1.00"				
King StarBoard® AS 3/4"	8"	.042"	.062"	.072"	.116"	.199"	.305"	.549"
	16"	.100"	.138"	.206"	.394"	.798"	>1.00"	
	24"	.132"	.220"	.367"	.878"	>1.00"		
King StarBoard® AS 1"	8"	ND	ND	ND	.106"	.148"	.198"	.254"
	16"	.070"	.085"	.119"	.204"	.387"	.581"	.821"
	24"	.077"	.135"	.186"	.402"	.821"	>1.00"	

Simply Supported - Concentrated Load

Center	Load (pounds/linear foot)						
	20	40	80	200	400	600	800

King StarBoard® 1/4"	8"	.071"	.136"	.286"	.794"	>1.00"		
	16"	.602"	>1.00"					
	24"	>1.00"						
King StarBoard® 1/2"	8"	.059"	.074"	.095"	.110"	.210"	.327"	.463"
	16"	.157"	.197"	.331"	.755"	>1.00"		
	24"	.230"	.456"	.934"	>1.00"			
King StarBoard® 3/4"	8"	ND	.045"	.058"	.085"	.117"	.154"	.188"
	16"	.026"	.052"	.098"	.200"	.430"	.660"	.880"
	24"	.107"	.166"	.325"	.841"	>1.00"		
King StarBoard® 1"	8"	ND	ND	.013"	.026"	.080"	.103"	.124"
	16"	ND	.044"	.065"	.117"	.204"	.295"	.395"
	24"	.060"	.079"	.135"	.289"	.589"	.914"	>1.00"
King StarBoard® 1-1/2"	8"	ND	ND	ND	.010"	.040"	.080"	.096"
	16"	ND	ND	.049"	.109"	.199"	.226"	.262"
	24"	.052"	.063"	.091"	.149"	.215"	.303"	.399"
King StarBoard® ST 1/4"	8"	.090"	.138"	.224"	.571"	>1.00"		
	16"	.350"	.725"	>1.00"				
	24"	>1.00"						
King StarBoard® ST 1/2"	8"	.057"	.063"	.080"	.127"	.208"	.298"	.414"
	16"	.089"	.133"	.257"	.690"	>1.00"		
	24"	.183"	.364"	>1.00"				
King StarBoard® ST 3/4"	8"	.039"	.043"	.045"	.053"	.072"	.092"	.110"
	16"	.048"	.055"	.092"	.205"	.405"	.642"	.852"
	24"	.071"	.115"	.213"	.533"	>1.00"		
King StarBoard® ST 1"	8"	ND	.038"	.039"	.049"	.064"	.079"	.092"
	16"	ND	ND	.075"	.139"	.217"	.304"	.407"
	24"	.061"	.080"	.153"	.301"	.583"	.942"	>1.00"
King StarBoard® ST 1-1/2"	8"	ND	ND	ND	.026"	.035"	.044"	.049"
	16"	ND	ND	.072"	.101"	.128"	.151"	.164"
	24"	.053"	.080"	.140"	.207"	.290"	.380"	.470"
King StarBoard® AS 1/2"	8"	.055"	.076"	.099"	.142"	.267"	.440"	.642"
	16"	.212"	.283"	.464"	>1.00"			
	24"	.292"	.605"	>1.00"				
King StarBoard® AS 3/4"	8"	.040"	.057"	.064"	.096"	.121"	.163"	.202"
	16"	.073"	.088"	.140"	.294"	.619"	.984"	>1.00"
	24"	.125"	.191"	.345"	.843"	>1.00"		
King StarBoard® AS 1"	8"	ND	.044"	.058"	.075"	.091"	.109"	.148"
	16"	.048"	.053"	.080"	.153"	.293"	.479"	.725"
	24"	.081"	.107"	.172"	.401"	.825"	>1.00"	

Simply Supported - Evenly Distributed Load

	Center	Load (pounds/square foot)						
		20	40	80	200	400	600	800
King StarBoard® 1/4"	8"	.064"	.087"	.110"	.161"	.240"	.310"	.384"
	16"	.071"	.097"	.186"	.196"	.294"	.371"	.453"
	24"	.080"	.107"	.137"	.218"	.312"	.440"	.718"
King StarBoard® 1/2"	8"	.055"	.062"	.068"	.082"	.096"	.110"	.123"
	16"	.056"	.067"	.081"	.096"	.126"	.158"	.185"
	24"	.060"	.074"	.089"	.116"	.164"	.203"	.237"
King StarBoard® 3/4"	8"	.040"	.052"	.056"	.065"	.074"	.083"	.091"
	16"	.042"	.062"	.063"	.080"	.101"	.118"	.134"
	24"	.045"	.067"	.073"	.104"	.136"	.163"	.188"
King StarBoard® 1"	8"	ND	.045"	.052"	.054"	.062"	.074"	.080"
	16"	ND	.055"	.062"	.072"	.084"	.099"	.110"
	24"	.012"	.059"	.065"	.098"	.120"	.138"	.164"
King StarBoard® 1-1/2"	8"	ND	ND	.044"	.053"	.059"	.069"	.079"
	16"	ND	.042"	.057"	.067"	.079"	.094"	.105"
	24"	.008"	.055"	.059"	.092"	.114"	.129"	.158"
King StarBoard® ST 1/4"	8"	.051"	.066"	.075"	.110"	.167"	.224"	.281"
	16"	.055"	.088"	.107"	.171"	.270"	.345"	.412"
	24"	.066"	.097"	.134"	.226"	.340"	.519"	.742"
King StarBoard® ST 1/2"	8"	.042"	.056"	.072"	.083"	.096"	.107"	.118"
	16"	.048"	.069"	.075"	.094"	.120"	.144"	.167"
	24"	.055"	.070"	.080"	.115"	.159"	.191"	.224"
King StarBoard® ST 3/4"	8"	.036"	.048"	.054"	.060"	.070"	.077"	.084"
	16"	.040"	.054"	.065"	.074"	.092"	.107"	.122"
	24"	.045"	.059"	.070"	.100"	.128"	.154"	.178"
King StarBoard® ST 1"	8"	ND	ND	.047"	.055"	.062"	.071"	.077"
	16"	.017"	.054"	.057"	.070"	.081"	.098"	.106"
	24"	.029"	.058"	.063"	.094"	.117"	.148"	.174"
King StarBoard® ST 1-1/2"	8"	ND	ND	.043"	.051"	.057"	.066"	.073"
	16"	.009"	.045"	.055"	.069"	.078"	.091"	.101"
	24"	.015"	.047"	.059"	.087"	.111"	.139"	.165"
King StarBoard® AS 1/2"	8"	.066"	.071"	.079"	.099"	.102"	.121"	.138"
	16"	.070"	.075"	.082"	.106"	.144"	.182"	.210"
	24"	.074"	.081"	.095"	.126"	.178"	.234"	.278"
King StarBoard® AS 3/4"	8"	.044"	.061"	.066"	.075"	.086"	.095"	.105"
	16"	.051"	.066"	.071"	.079"	.098"	.117"	.127"
	24"	.059"	.071"	.079"	.103"	.131"	.154"	.181"
King StarBoard® AS 1"	8"	ND	.048"	.055"	.059"	.065"	.079"	.083"
	16"	.010"	.058"	.065"	.071"	.086"	.099"	.112"
	24"	.015"	.062"	.076"	.098"	.123"	.149"	.170"

Fixed Supported - Single Point Load

	Center	Load (pounds)						
		50	100	200	500	1000	1500	2000
King StarBoard® 1/4"	8"	.193"	.335"	.519"	.895"	>1.00"		
	16"	.370"	.604"	.984"	>1.00"			
	24"	.851"	>1.00"					
King StarBoard® 1/2"	8"	.053"	.062"	.099"	.233"	.502"	.757"	.992"
	16"	.062"	.135"	.272"	.676"	>1.00"		
	24"	.195"	.365"	.742"	>1.00"			
King StarBoard® 3/4"	8"	.033"	.038"	.054"	.105"	.199"	.320"	.467"
	16"	.050"	.074"	.124"	.319"	.578"	>1.00"	
	24"	.084"	.143"	.264"	.710"	>1.00"		
King StarBoard® 1"	8"	ND	.036"	.042"	.059"	.091"	.126"	.167"
	16"	.032"	.049"	.068"	.123"	.248"	.393"	.545"
	24"	.065"	.085"	.137"	.310"	.615"	.956"	>1.00"
King StarBoard® 1-1/2"	8"	ND	ND	ND	.051"	.067"	.079"	.091"
	16"	ND	.040"	.048"	.070"	.100"	.137"	.177"
	24"	.053"	.068"	.082"	.124"	.209"	.299"	.422"
King StarBoard® ST 1/4"	8"	.114"	.229"	.375"	.708"	>1.00"		
	16"	.281"	.506"	.845"	>1.00"			
	24"	.537"	>1.00"					
King StarBoard® ST 1/2"	8"	.057"	.069"	.097"	.194"	.395"	.610"	.838"
	16"	.085"	.167"	.287"	.623"	>1.00"		
	24"	.149"	.300"	.564"	>1.00"			
King StarBoard® ST 3/4"	8"	.020"	.025"	.031"	.090"	.145"	.250"	.355"
	16"	.048"	.080"	.112"	.225"	.449"	.689"	.927"
	24"	.062"	.107"	.196"	.475"	>1.00"		
King StarBoard® ST 1"	8"	ND	ND	.025"	.080"	.110"	.146"	.180"
	16"	ND	.068"	.089"	.145"	.256"	.379"	.520"
	24"	.049"	.100"	.142"	.273"	.574"	.789"	>1.00"
King StarBoard® ST 1-1/2"	8"	ND	ND	ND	.033"	.048"	.057"	.067"
	16"	ND	.038"	.052"	.071"	.102"	.135"	.171"
	24"	ND	.082"	.106"	.165"	.268"	.367"	.481"
King StarBoard® AS 1/2"	8"	.047"	.064"	.107"	.278"	.561"	.809"	>1.00"
	16"	.098"	.200"	.403"	.834"	>1.00"		
	24"	.260"	.492"	.936"	>1.00"			
King StarBoard® AS 3/4"	8"	.038"	.042"	.053"	.090"	.177"	.273"	.399"
	16"	.069"	.102"	.154"	.333"	.642"	.929"	>1.00"
	24"	.080"	.127"	.265"	.695"	>1.00"		
King StarBoard® AS 1"	8"	ND	ND	ND	.085"	.128"	.179"	.245"
	16"	.050"	.060"	.085"	.163"	.220"	.398"	.586"
	24"	.059"	.107"	.155"	.399"	.821"	>1.00"	

Fixed Supported - Concentrated Load

	Center	Load (pounds/linear foot)						
		20	40	80	200	400	600	800
King StarBoard® 1/4"	8"	.052"	.061"	.127"	.359"	.758"	>1.00"	
	16"	.183"	.373"	.785"	>1.00"			
	24"	.576"	>1.00"					
King StarBoard® 1/2"	8"	.045"	.055"	.072"	.089"	.142"	.233"	.339"
	16"	.050"	.064"	.119"	.371"	.870"	>1.00"	
	24"	.096"	.206"	.460"	>1.00"			
King StarBoard® 3/4"	8"	.034"	.039"	.044"	.066"	.095"	.126"	.165"
	16"	.018"	.029"	.048"	.125"	.275"	.475"	.685"
	24"	.096"	.130"	.240"	.685"	>1.00"		
King StarBoard® 1"	8"	ND	ND	.041"	.050"	.061"	.072"	.084"
	16"	ND	ND	.039"	.089"	.162"	.245"	.351"
	24"	.060"	.068"	.106"	.225"	.470"	.730"	>1.00"
King StarBoard® 1-1/2"	8"	ND	ND	.038"	.041"	.047"	.056"	.061"
	16"	ND	ND	.035"	.067"	.090"	.114"	.138"
	24"	.042"	.043"	.065"	.106"	.173"	.246"	.321"
King StarBoard® ST 1/4"	8"	.053"	.063"	.106"	.268"	.609"	.920"	>1.00"
	16"	.135"	.243"	.556"	>1.00"			
	24"	.481"	>1.00"					
King StarBoard® ST 1/2"	8"	.040"	.048"	.055"	.073"	.128"	.192"	.268"
	16"	.054"	.065"	.122"	.359"	.825"	>1.00"	
	24"	.090"	.164"	.368"	>1.00"			
King StarBoard® ST 3/4"	8"	.035"	.041"	.049"	.053"	.068"	.091"	.110"
	16"	ND	.040"	.059"	.134"	.281"	.476"	.635"
	24"	.053"	.065"	.139"	.400"	>1.00"		
King StarBoard® ST 1"	8"	.031"	.035"	.041"	.045"	.054"	.064"	.077"
	16"	ND	.039"	.051"	.091"	.159"	.226"	.307"
	24"	.045"	.062"	.137"	.262"	.504"	.658"	>1.00"
King StarBoard® ST 1-1/2"	8"	ND	ND	.025"	.030"	.041"	.048"	.052"
	16"	ND	.037"	.047"	.067"	.093"	.121"	.146"
	24"	.037"	.057"	.103"	.137"	.209"	.286"	.373"
King StarBoard® AS 1/2"	8"	.046"	.057"	.075"	.098"	.194"	.301"	.424"
	16"	.059"	.077"	.160"	.476"	>1.00"		
	24"	.115"	.221"	.585"	>1.00"			
King StarBoard® AS 3/4"	8"	.040"	.042"	.048"	.071"	.102"	.135"	.176"
	16"	.049"	.051"	.090"	.223"	.470"	.737"	>1.00"
	24"	.065"	.094"	.266"	.674"	>1.00"		
King StarBoard® AS 1"	8"	ND	ND	.031"	.068"	.083"	.097"	.116"
	16"	ND	.040"	.059"	.126"	.245"	.397"	.542"
	24"	.049"	.067"	.145"	.352"	.734"	>1.00"	

Fixed Supported - Evenly Distributed Load

	Center	Load (pounds/square foot)						
		20	40	80	200	400	600	800
King StarBoard® 1/4"	8"	.041"	.059"	.069"	.088"	.122"	.160"	.195"
	16"	.044"	.061"	.072"	.105"	.157"	.201"	.235"
	24"	.051"	.073"	.085"	.112"	.175"	.219"	.272"
King StarBoard® 1/2"	8"	.038"	.055"	.063"	.077"	.096"	.105"	.116"
	16"	.040"	.059"	.071"	.086"	.101"	.108"	.129"
	24"	.049"	.067"	.080"	.095"	.132"	.165"	.195"
King StarBoard® 3/4"	8"	.036"	.049"	.050"	.059"	.072"	.081"	.087"
	16"	.040"	.052"	.059"	.071"	.083"	.098"	.110"
	24"	.046"	.058"	.066"	.084"	.111"	.138"	.163"
King StarBoard® 1"	8"	ND	.037"	.046"	.052"	.060"	.076"	.081"
	16"	ND	.040"	.050"	.057"	.067"	.083"	.092"
	24"	ND	.049"	.052"	.079"	.106"	.126"	.148"
King StarBoard® 1-1/2"	8"	ND	ND	.037"	.049"	.052"	.061"	.073"
	16"	ND	.027"	.043"	.057"	.065"	.078"	.085"
	24"	ND	.036"	.046"	.071"	.100"	.119"	.136"
King StarBoard® ST 1/4"	8"	.042"	.058"	.067"	.085"	.118"	.155"	.186"
	16"	.049"	.060"	.072"	.088"	.123"	.159"	.196"
	24"	.055"	.080"	.085"	.127"	.185"	.229"	.281"
King StarBoard® ST 1/2"	8"	.036"	.052"	.059"	.071"	.092"	.099"	.110"
	16"	.040"	.055"	.062"	.078"	.098"	.105"	.114"
	24"	.049"	.061"	.064"	.093"	.124"	.152"	.183"
King StarBoard® ST 3/4"	8"	.035"	.052"	.056"	.061"	.069"	.077"	.083"
	16"	.041"	.056"	.060"	.064"	.081"	.091"	.106"
	24"	.047"	.060"	.066"	.082"	.105"	.129"	.148"
King StarBoard® ST 1"	8"	ND	.045"	.046"	.053"	.063"	.070"	.077"
	16"	ND	.048"	.050"	.057"	.068"	.081"	.091"
	24"	ND	.049"	.052"	.076"	.098"	.111"	.137"
King StarBoard® ST 1-1/2"	8"	ND	ND	.042"	.050"	.059"	.064"	.069"
	16"	ND	.034"	.047"	.055"	.062"	.075"	.086"
	24"	ND	.045"	.049"	.071"	.093"	.107"	.131"
King StarBoard® AS 1/2"	8"	.042"	.056"	.068"	.080"	.101"	.111"	.124"
	16"	.045"	.058"	.070"	.085"	.104"	.118"	.141"
	24"	.051"	.074"	.082"	.102"	.134"	.171"	.205"
King StarBoard® AS 3/4"	8"	.039"	.054"	.063"	.073"	.081"	.089"	.096"
	16"	.041"	.058"	.066"	.079"	.088"	.095"	.102"
	24"	.046"	.070"	.078"	.101"	.125"	.150"	.176"
King StarBoard® AS 1"	8"	ND	.039"	.048"	.056"	.066"	.080"	.086"
	16"	ND	.041"	.054"	.061"	.072"	.089"	.095"
	24"	ND	.057"	.065"	.083"	.114"	.135"	.155"