



King StarBoard Deflection

Simply Supported: StarBoard is laying unattached on top of the support system/joists

Fixed Supported: StarBoard is laying attached to the support system/joists

Single Point Load: Load is applied at a single point (like having all of your weight on one foot when walking)

Concentrated Load: Load is applied over a small area (like having your weight on both feet when standing)

Evenly Distributed Load: Load where weight is evenly distributed over the square footage of the sheet

Simply Supported - Single Point Load

		Load (Pounds)						
	Center	50	100	200	500	1000	1500	2000
StarBoard 1/4"	8"	.239"	.389"	.646"	>1.00"			
	16"	.639"	>1.00"					
	24"	>1.00"						
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"			
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"		
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"	
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"
StarBoard AS 1/2"	8"	.056"	.100"	.153"	.334"	.665"	>1.00"	
	16"	.154"	.283"	.518"	>1.00"			
	24"	.301"	.609"	>1.00"				

Simply Supported - Concentrated Load

		Load (Pounds/ Linear Foot)						
Center		20	40	80	200	400	600	800
StarBoard 1/4"	8"	.071"	.136"	.286"	.794"	>1.00"		
	16"	.602"	>1.00"					
	24"	>1.00"						
StarBoard 1/2"	8"	.059"	.074"	.095"	.110"	.210"	.327"	.463"
	16"	.157"	.197"	.331"	.755"	>1.00"		
	24"	.230"	.456"	.934"	>1.00"			
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"		
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"
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"
StarBoard AS 1/2"	8"	.055"	.076"	.099"	.142"	.267"	.440"	.642"
	16"	.212"	.283"	.464"	>1.00"			
	24"	.292"	.605"	>1.00"				

Simply Supported - Evenly Distributed Load

		Load (Pounds/ Square Foot)						
Center		20	40	80	200	400	600	800
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"
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"
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"
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"
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"
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"

Fixed Supported - Single Point Load

		Load (Pounds)						
Center		50	100	200	500	1000	1500	2000
StarBoard 1/4"	8"	.193"	.335"	.519"	.895"	>1.00"		
	16"	.370"	.604"	.984"	>1.00"			
	24"	.851"	>1.00"					
StarBoard 1/2"	8"	.053"	.062"	.099"	.233"	.502"	.757"	.992"
	16"	.062"	.135"	.272"	.676"	>1.00"		
	24"	.195"	.365"	.742"	>1.00"			
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"		
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"
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"
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"			

Fixed Supported - Concentrated Load

		Load (Pounds/ Linear Foot)						
Center		20	40	80	200	400	600	800
StarBoard 1/4"	8"	.052"	.061"	.127"	.359"	.758"	>1.00"	
	16"	.183"	.373"	.785"	>1.00"			
	24"	.576"	>1.00"					
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"			
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"		
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"
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"
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"			

Fixed Supported - Evenly Distributed Load

		Load (Pounds/ Square Foot)						
Center		20	40	80	200	400	600	800
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"
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"
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"
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"
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"
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"