

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" |