


APPROVED BY 

DATE 10/18/16

1 1/2" HAT SECTION  
 MATERIAL 16 GA. (0.06)  
 FLAT PATTERN 6.64"

-Tolerance- Except as Noted		<b>MARION MANUFACTURING, INC.</b> 201 S. COBBLE MARION KANSAS	
Customer: MARION MANUFACTURING, INC.		Title: 1 1/2" HAT SECTION	
FRACT. : ±1/32		Drawn By: AR	
L : ±3"		Date: 4-15	
File No. 1 1/2 HAT		Scale: 1=1	
		Sheet: 1	
		DET. # 1 1/2 HAT	

## B1.5" MEZZANINE DECK ALLOWABLE UNIFORM TOTAL LOAD (PSF)

NUMBER OF SPANS	GAGE	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"																																																																																																																												
		<table border="1"> <tr> <td rowspan="3">SINGLE</td> <td>22</td> <td>284</td> <td>209</td> <td>180</td> <td>126</td> <td>95</td> <td>74</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>362</td> <td>259</td> <td>198</td> <td>157</td> <td>120</td> <td>92</td> <td>73</td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>400</td> <td>352</td> <td>270</td> <td>213</td> <td>167</td> <td>128</td> <td>101</td> <td>81</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">DOUBLE</td> <td>16</td> <td>400</td> <td>400</td> <td>342</td> <td>289</td> <td>242</td> <td>182</td> <td>127</td> <td>102</td> <td>84</td> <td>70</td> </tr> <tr> <td>22</td> <td>270</td> <td>211</td> <td>182</td> <td>128</td> <td>105</td> <td>87</td> <td>73</td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>349</td> <td>250</td> <td>200</td> <td>159</td> <td>129</td> <td>107</td> <td>93</td> <td>79</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">TRIPLE</td> <td>18</td> <td>400</td> <td>348</td> <td>289</td> <td>243</td> <td>174</td> <td>144</td> <td>123</td> <td>104</td> <td>90</td> <td></td> </tr> <tr> <td>16</td> <td>400</td> <td>400</td> <td>344</td> <td>273</td> <td>222</td> <td>183</td> <td>154</td> <td>131</td> <td>113</td> <td>99</td> </tr> <tr> <td>20</td> <td>400</td> <td>319</td> <td>247</td> <td>197</td> <td>160</td> <td>133</td> <td>116</td> <td>99</td> <td></td> <td></td> </tr> <tr> <td rowspan="3">TRIPLE</td> <td>18</td> <td>400</td> <td>400</td> <td>331</td> <td>264</td> <td>215</td> <td>179</td> <td>153</td> <td>131</td> <td>113</td> <td></td> </tr> <tr> <td>16</td> <td>400</td> <td>400</td> <td>400</td> <td>340</td> <td>277</td> <td>229</td> <td>193</td> <td>164</td> <td>141</td> <td>123</td> </tr> </table>											SINGLE	22	284	209	180	126	95	74					20	362	259	198	157	120	92	73				18	400	352	270	213	167	128	101	81			DOUBLE	16	400	400	342	289	242	182	127	102	84	70	22	270	211	182	128	105	87	73				20	349	250	200	159	129	107	93	79			TRIPLE	18	400	348	289	243	174	144	123	104	90		16	400	400	344	273	222	183	154	131	113	99	20	400	319	247	197	160	133	116	99			TRIPLE	18	400	400	331	264	215	179	153	131	113		16	400	400	400	340	277	229	193	164
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**Example Calculation:**

B1.5" Mezzanine Deck is supported by four joists (three spans) spaced 66" apart. What would be the lightest gage of B1.5" Mezzanine Deck allowable to achieve 125 pounds per square foot (PSF) assuming a uniform load?

**Step 1:** Locate the column labeled 66"

**Step 2:** Match the 66" column with the rows pertaining to three spans

**Step 3:** Find the lowest value above 125 PSF and match the gage

**Solution:** 133 PSF = 20GA B1.5" Mezzanine Deck