

## RAFTER SPAN TABLES

### ALLOWABLE SPANS IN FEET AND INCHES

#2 Spruce-Pine-Fir

NOMINAL SIZE	O.C.	GROUND SNOW LOAD =30PSF CEILING <i>NOT</i> ATTACHED. <b>DEAD LOAD =10PSF</b>	GROUND SNOW LOAD =30PSF CEILING ATTACHED. <b>DEAD LOAD =10PSF</b>
<b>2 X 4</b>	<b>12"</b>	<b>9-1</b>	<b>8-3</b>
	<b>16"</b>	<b>8-2</b>	<b>7-6</b>
	<b>24"</b>	<b>6-8</b>	<b>6-6</b>
<b>2 X 6</b>	<b>12"</b>	<b>13-9</b>	<b>12-11</b>
	<b>16"</b>	<b>11-11</b>	<b>11-9</b>
	<b>24"</b>	<b>9-9</b>	<b>9-9</b>
<b>2 X 8</b>	<b>12"</b>	<b>17-5</b>	<b>17-0</b>
	<b>16"</b>	<b>15-1</b>	<b>15-1</b>
	<b>24"</b>	<b>12-4</b>	<b>12-4</b>
<b>2 X 10</b>	<b>12"</b>	<b>21-4</b>	<b>21-4</b>
	<b>16"</b>	<b>18-5</b>	<b>18-5</b>
	<b>24"</b>	<b>15-1</b>	<b>15-1</b>
<b>2 X 12</b>	<b>12"</b>	<b>24-8</b>	<b>24-8</b>
	<b>16"</b>	<b>21-5</b>	<b>21-5</b>
	<b>24"</b>	<b>17-6</b>	<b>17-6</b>

Only with ceiling joists located near the base of the rafter at the bearing wall (1/7.5 or less)

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NOMINAL SIZE	O.C.	GROUND SNOW LOAD =30PSF CEILING <i>NOT</i> ATTACHED. <b>DEAD LOAD =20PSF</b>	GROUND SNOW LOAD =30PSF CEILING ATTACHED. <b>DEAD LOAD =20PSF</b>
<b>2 X 4</b>	<b>12"</b>	<b>8-5</b>	<b>8-3</b>
	<b>16"</b>	<b>7-3</b>	<b>7-3</b>
	<b>24"</b>	<b>5-11</b>	<b>5-11</b>
<b>2 X 6</b>	<b>12"</b>	<b>12-4</b>	<b>12-4</b>
	<b>16"</b>	<b>10-8</b>	<b>10-8</b>
	<b>24"</b>	<b>8-8</b>	<b>8-8</b>
<b>2 X 8</b>	<b>12"</b>	<b>15-7</b>	<b>15-7</b>
	<b>16"</b>	<b>13-6</b>	<b>13-6</b>
	<b>24"</b>	<b>11-0</b>	<b>11-0</b>
<b>2 X 10</b>	<b>12"</b>	<b>21-4</b>	<b>21-4</b>
	<b>16"</b>	<b>18-5</b>	<b>18-5</b>
	<b>24"</b>	<b>15-1</b>	<b>15-1</b>
<b>2 X 12</b>	<b>12"</b>	<b>22-1</b>	<b>22-1</b>
	<b>16"</b>	<b>19-2</b>	<b>19-2</b>
	<b>24"</b>	<b>15-7</b>	<b>15-7</b>

CALCULATIONS REFERENCED TO ICC 2018 TABLES R802.4.1 (3) & 802.4.1 (4)