

# 1½" 1.5E Engineered Framing Lumber (EFL) Ceiling Joists

**Uninhabitable Attics with Limited Storage, 20 psf Live Load, 10 psf Dead Load**

**Spans with Deflection Limited to L/240 Live Load, L/180 Total Load**

Joist Depth	Joist Spacing			
	12"o.c.	16"o.c.	19.2"o.c.	24"o.c.
5 1/2"	14'-05"	13'-01"	12'-03"	11'-05"
7 1/4"	19'-00"	17'-03"	16'-03"	15'-01"
9 1/2"	25'-00"	22'-08"	21'-04"	19'-10"
11 7/8"	31'-03"	28'-05"	26'-09"	24'-10"

**Spans with Deflection Limited to L/360 Live Load, L/240 Total Load**

Joist Depth	Joist Spacing			
	12"o.c.	16"o.c.	19.2"o.c.	24"o.c.
5 1/2"	13'-01"	11'-10"	11'-02"	10'-04"
7 1/4"	17'-03"	15'-08"	14'-09"	13'-08"
9 1/2"	22'-08"	20'-07"	19'-04"	18'-00"
11 7/8"	28'-05"	25'-09"	24'-03"	22'-06"

1. Spans are simple spans, clear distances between supports.
2. Uniform loads only. Spans shown are not designed to support purlin braces or posts from roof framing.
3. Minimum end bearing length is 1 1/2". Assumes SPF bearing plate ( $F_c \perp = 425$  psi).
4. Provide lateral support at points of bearing to prevent rotation. When ceiling joists are attached to rafters at points of bearing, the lateral support is not required.
5. The top edge of the joists shall be supported laterally at intervals not exceeding 4 feet by sheathing or by a continuous 1x3 nailed across the joists.
6. Do not allow workers or loads on joists until properly installed and braced. See "Bracing Requirements" in the BlueLinX Residential Floor and Roof Systems Specifier's Guide for additional information.
7. EFL is composed of LVL (laminated veneer lumber).