onCENTER®

BlueLinx Engineered Products

Specifier's Guide Addendum - 40 PSF LL / 20 PSF DL Span Table

This is a supplement to the onCENTER Specifier's Guide (item OCLPG) dated 8/20.

40 PSF Live Load + 20 PSF Dead Load (L/480)

Joist Series	Joist Depth	Simple Span				Multiple Span			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
BLI 40	9½"	18'-00"	16'-05"	14'-11"	13'-04"	18'-11"	16'-04"	14'-11"	13'-03"
	11⅞"	21'-05"	18'-08"	17'-01"	15'-03"	21'-06"	18'-07"	17'-00"	15'-02"
	14"	23'-09"	20'-06"	18'-09"	16'-09"	23'-08"	20'-05"	18'-08"	16'-05"
	16"	25'-07"	22'-01"	20'-02"	18'-00"	25'-06"	22'-00"	20'-01"	16'-05"
BLI 60	11⅞"	22'-07"	20'-08"	19'-06"	17'-11"	24'-08"	21'-11"	20'-00"	16'-05"
	14"	25'-09"	23'-06"	22'-00"	19'-08"	27'-10"	24'-01"	20'-07"	16'-05"
	16"	28'-06"	26'-00"	23'-09"	19'-10"	30'-00"	24'-09"	20'-07"	16'-05"
BLI 80	11⅞"	24'-11"	22'-08"	21'-04"	19'-10"	27'-01"	24'-08"	22'-09"	18'-02"
	14"	28'-03"	25'-09"	24'-03"	21'-02"	30'-10"	28'-00"	24'-11"	19'-11"
	16"	31'-04"	28'-06"	26'-06"	21'-02"	34'-02"	30'-00"	24'-11"	19'-11"
	18"	34'-02"	31'-01"	25'-11"	20'-08"	37'-03"	30'-09"	25'-07"	20'-05"
BLI 90	11⅞"	25'-07"	23'-03"	21'-11"	20'-05"	27'-11"	25'-04"	22'-09"	18'-02"
	14"	29'-00"	26'-05"	24'-11"	21'-02"	31'-08"	28'-09"	24'-11"	19'-11"
	16"	32'-01"	29'-03"	26'-06"	21'-02"	35'-00"	31'-10"	27'-00"	21'-07"
	18"	35'-01"	31'-01"	25'-11"	20'-08"	38'-03"	31'-09"	26'-05"	21'-01"
BLI 700	11⅞"	23'-00"	21'-00"	19'-10"	18'-06"	25'-01"	22'-10"	20'-03"	16'-02"
	14"	26'-01"	23'-10"	22'-06"	19'-02"	28'-05"	24'-05"	20'-03"	16'-02"
	16"	29'-00"	26'-05"	24'-00"	19'-02"	31'-07"	24'-05"	20'-03"	16'-02"
BLI 900	11⅞"	26'-04"	24'-00"	22'-07"	21'-00"	28'-08"	26'-01"	24'-07"	22'-02"
	14"	29'-11"	27'-02"	25'-07"	23'-02"	32'-07"	29'-07"	27'-09"	22'-02"
	16"	33'-01"	30'-01"	28'-04"	23'-02"	36'-01"	32'-09"	27'-09"	22'-02"

NOTES:

1. Spans are maximum clear distances between supports. Uniform loading is assumed.
2. Live load deflection is limited to L/480, providing joists that are one-third stiffer than required by code. Experience has shown that floors designed to the code minimum live load deflection (L/360) may not meet the occupant's expectations for floor performance.
3. Spans are based on composite action with glued-nailed APA Rated Sheathing or Sturd-I-Floor panels of minimum thickness 19/32" (40/20 or 20 oc) for joist spacing of 19.2" or less, or 23/32" (48/24 or 24 oc) for a joist spacing of 24". Apply a ¼" diameter continuous bead of adhesive (meeting APA AFG-01 or ASTM D 3498) to top flange of joists. Surfaces must be clean and dry. If adhesive is not used, reduce spans by 12".
4. Minimum bearing length: 1¾" (end), 3½" (intermediate).
5. For multiple-span joists, end spans must be at least 40% of adjacent span.
6. Tabulated spans for multiple-span conditions cover a wide range of span combinations. Neither simple nor multiple spans require bearing stiffeners. Longer spans may be possible by analyzing a specific span condition and/or by adding bearing stiffeners. Check using DOMA Sizer™ software.
7. For loads or deflection criteria other than those shown above, refer to Floor Load Table on page 10 of the onCENTER Specifier's Guide.

8/20 Lit. Item # OCLPG-A3