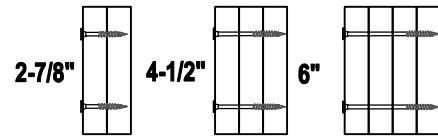
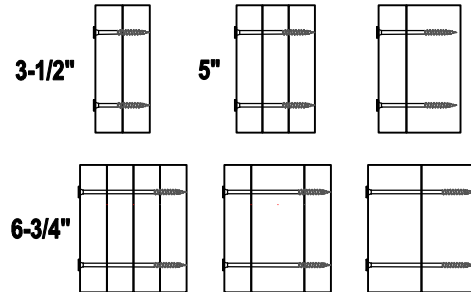


Fastener Length by Application

Dimensional Beams



Engineered Wood Beams



ALLOWABLE UNIFORM SIDE LOAD (PLF) IN DIMENSIONAL and EW BEAMS													
FASTENERS PER ROW	SPACING BETWEEN ROWS	2-PLY				3-PLY				4-PLY			
		SPF (0.42)	D.FIR (0.50)	S.PINE (0.55)	LVL LSL	SPF (0.42)	D.FIR (0.50)	S.PINE (0.55)	LVL LSL	SPF (0.42)	D.FIR (0.50)	S.PINE (0.55)	LVL LSL
2	24	300	360	420	660	220	270	310	490	200	240	280	440
2	19.2	375	450	525	825	275	340	390	615	250	300	350	550
2	16	450	540	630	990	330	405	465	735	300	360	420	660
2	12	600	720	840	1320	440	540	620	980	400	480	560	880
3	24	450	540	630	990	330	405	465	735	300	360	420	660
3	19.2	565	675	790	1240	415	505	580	920	375	450	525	825
3	16	675	810	945	1485	495	610	700	1103	450	540	630	990
3	12	900	1080	1260	1980	660	810	930	1470	600	720	840	1320

DESIGNER NOTES

Table values assume the worst-case condition where uniform load is applied to the ply closest to the fastener point. Increased allowable loads available where higher loaded ply closest to fastener head. See ER-718. Maintain minimum spacing: 1-3/4" from top or bottom, 6" from end and 5/8" between staggered fasteners in a row. Select proper fastener length from detail below based on number of plies and wood thickness.

MINIMUM FASTENING PATTERN FOR TOP LOADED BEAMS

WOOD TYPE	BEAM DEPTH	FASTENERS PER ROW	SPACING BETWEEN
DIMENSIONAL LUMBER	UP TO 2x10	2	24"
	2X12	3	24"
EW (LVL / LSL)	UNDER 18"	2	16"
	18" PLUS	3	16"

SUPPORTING TECHNICAL REPORTS

IAMPO Evaluation Report ER-718
<https://www.iapmoes.org/building-products-evaluation-report-program/evaluation-report-directory/>

COMPLIANT TO CODES

IRC, IBC, LABC, LARC, FBC, FRC

MULTI-PLY BEAM

DETAIL #
FM - FL 02

REV. DATE
04/13/2023

FastenMaster Framing Details

