

# FRAMING ANGLES – A3, AC, JA, MP34, MP, MPA 1, & MPF

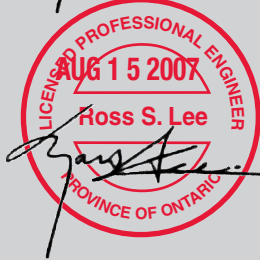
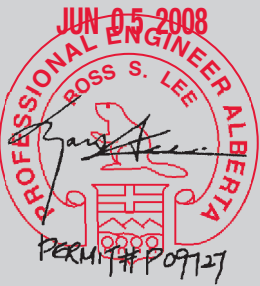


USP Stock No.	Ref. No.	Steel Gauge	Dimensions			Fastener Schedule <sup>4,5,6</sup>				Direction of Load <sup>3</sup>	Factored Resistance <sup>1,2,5,7</sup>									
			W1	W2	L	Header		Joist			DF-L		S-P-F							
						Qty	Type	Qty	Type		100%	115%	100%	115%						
MPA1	A35	18	1-1/2	1-7/16	4-1/2	6	8d x 1-1/2	6	8d x 1-1/2	F1	1115	1280	790	910						
												F2	1300	1300	925	925				
													A1	685	785	485	555			
													B1	510	585	360	415			
													C1	525	600	370	425			
													A2	830	955	590	675			
													B2	460	525	325	375			
													C2	610	705	435	500			
												6	8d x 1-1/2	2	8d x 1-1/2	F1	340	390	240	280
															F2	855	985	610	700	
MP34	A34	18	1-7/16	1-1/2	2-13/16	4	8d x 1-1/2	4	8d x 1-1/2	F1	1025	1025	725	725						
												F3	555	635	395	450				
MP4F	LTP4	20	4-1/4	---	3	6	8d x 1-1/2	6	8d x 1-1/2	V	1380	1585	980	1125						
												H	1380	1585	980	1125				
						6	8d x 1-1/2	6	8d x 1-1/2	V	1380	1585	980	1125						
												H	1380	1585	980	1125				
						6	8d	6	8d	V	1380	1585	980	1125						
												H	1380	1585	980	1125				
						6	8d	6	8d	V	1380	1585	980	1125						
												H	1380	1585	980	1125				
MP6F	LTP5	20	4-1/4	---	3-3/4	6	8d x 1-1/2	6	8d x 1-1/2	V	995	1145	705	815						
												H	995	1145	705	815				
						6	8d x 1-1/2	6	8d x 1-1/2	V	995	1145	705	815						
												H	995	1145	705	815				
						6	8d	6	8d	V	995	1145	705	815						
												H	995	1145	705	815				
						6	8d	6	8d	V	995	1145	705	815						
												H	995	1145	705	815				
A3	A23	18	1-7/16	1-7/16	2-3/4	4	10d x 1-1/2	4	10d x 1-1/2	F1	970	1115	690	792						
									F2	985	1130	700	802							
MP3	LS30	18	2-1/4	2-1/4	3-3/8	3	10d	3	10d	F1	750	860	535	615						
MP5	LS50	18	2-1/4	2-1/4	4-5/8	4	10d	4	10d	F1	1335	1535	950	1095						
MP7	LS70	18	2-1/4	2-1/4	5-7/8	5	10d	5	10d	F1	1740	2005	1235	1420						
MP9	LS90	18	2-1/4	2-1/4	6-7/8	6	10d	6	10d	F1	1980	2280	1405	1615						
AC3	L30	16	1-5/16	2-3/8	2-7/8	2	10d	2	10d	F1	450	520	320	370						
												F2	465	535	330	380				
AC5	L50	16	1-5/16	2-3/8	4-7/8	3	10d	3	10d	F1	995	1145	705	815						
												F2	930	1070	660	760				
AC7	L70	16	1-5/16	2-3/8	6-15/16	4	10d	4	10d	F1	1120	1285	795	910						
												F2	1335	1535	950	1090				
AC9	L90	16	1-5/16	2-3/8	8-7/8	5	10d	5	10d	F1	1860	2135	1320	1515						
												F2	1335	1535	950	1090				
JA1	A21	16	1-1/2	1-1/2	1-1/4	2	10d x 1-1/2	2	10d x 1-1/2	F1	421	484	299	344						
												F2	562	647	399	459				
JA3	---	14	2-1/2	2-1/2	3	4	16d	4	10d x 1-1/2	F1	963	1108	684	786						
												F2	874	1005	620	713				
JA5	---	14	2-1/2	2-1/2	5	6	16d	6	10d x 1-1/2	F1	1556	1790	1105	1271						
												F2	1665	1915	1182	1360				
JA7	---	14	2-1/2	2-1/2	7	8	16d	8	10d x 1-1/2	F1	3058	3517	2171	2497						
												F2	2664	3064	1892	2176				
JA9	---	14	2-1/2	2-1/2	9	10	16d	10	10d x 1-1/2	F1	3767	4333	2675	3076						
												F2	2697	3102	1915	2202				

- 1) The factored resistance is derived as directed in Canadian Standard CAN/CSA-086-01.
- 2) The 115% values are short-term loads such as wind and earthquake.
- 3) 8d x 1-1/2 nails are 11 gauge (0.131 diameter) by 1-1/2 long and 10d x 1-1/2 nails are 9 gauge (0.148 diameter) by 1-1/2 long.
- 4) If installing MP4F or MP6F over plywood, use 8d common nails for 100% of table load.
- 5) Factored resistances are shown per angle. When using a single anchor, joist must be constrained from rotation.
- 6) Minimum nail embedment shall be 1-1/2 for 10d nails and 1-5/8 for 16d nails.
- 7) For 1-1/2 lumber, use 0.98 of table load for 10d nails and 0.92 for 16d nails.

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.

APPROVED BY



USP supplies quality products to build Stronger Safer Structures  
[www.USPconnectors.com](http://www.USPconnectors.com) A GIBRALTAR INDUSTRIES COMPANY