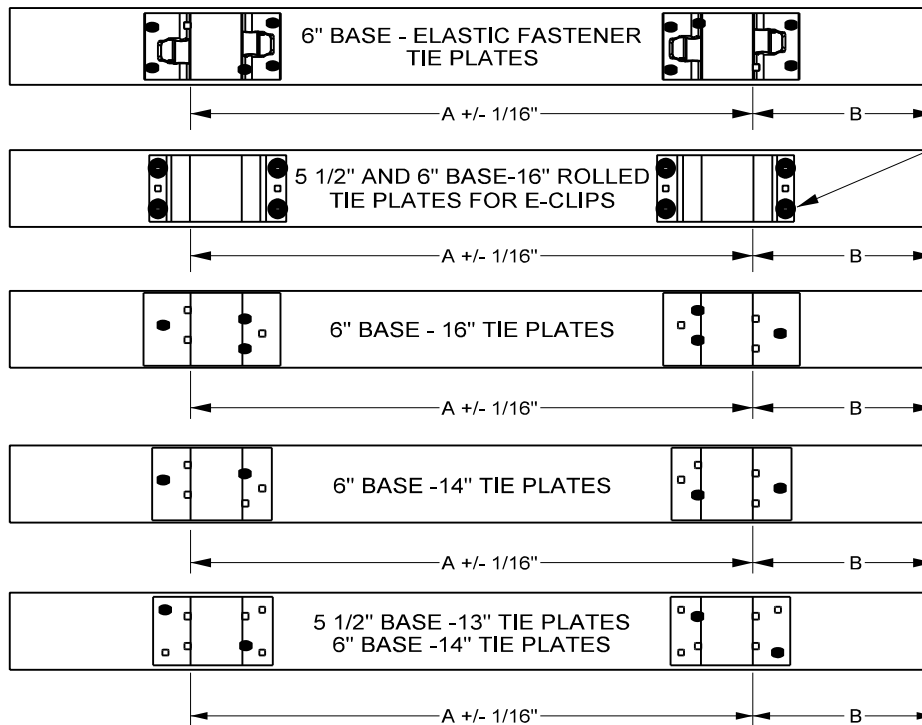
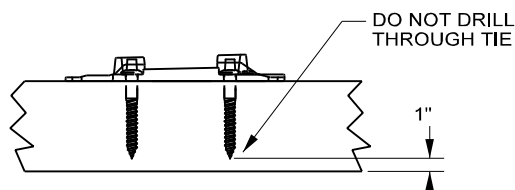
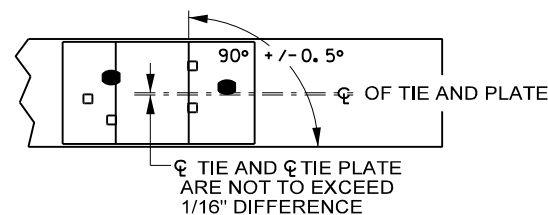




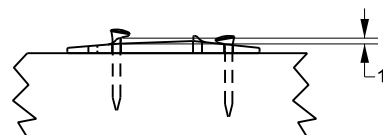
USE (4) 15/16" X 6 1/2" SCREW SPIKES PER PLATE



SCREW SPIKE CLEARANCE



TYP. PLATE ALIGNMENT



GAUGE SPIKE CLEARANCE

NOTES:

- PRE-BORED HOLES NECESSARY TO INSTALL COACH SCREWS WITH RESILIENT FASTENER TIE PLATES DRILLED TO ONE HALF INCH FROM BOTTOM OF THE TIE, USING FOLLOWING PRE-BORED DIAMETERS:
11/16"-SOFT WOOD TIES
3/4"-HARD WOOD & COMPOSITE TIES
- RAIL GAUGE SPIKES WILL HAVE 1" CLEARANCE BETWEEN RAIL SEAT AND UNDERSIDE OF SPIKE HEAD.

UNION PACIFIC RAILROAD ENGINEERING STANDARDS

PREPLATING DIMENSIONS FOR WOOD TIES



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RAIL SIZE (ALL TIES 7" X 9")	QUANTITY SPIKES OR SCREWS	TIE PLATE	A	TIE PLATE	TIE LENGTH	B	ITEM NUMBER		
							HARDWOOD NEW PLATE	HARDWOOD SECONDHAND PLATE	BORATE NEW PLATE
5 1/2" BASE	4 SPIKES	13" SPIKE 8 HOLE MP-13	65"	554-3779-2	8'	15 1/2"	-	502-9793	-
					8'-6"	18 1/2"	-	502-7981	-
					9'	21 1/2"	-	502-9700	-
	8 SCREWS	15" ROLLED FOR E-CLIPS	65"	503-6342-0	8'-6"	18 1/2"	502-7902	-	-
					9'	21 1/2"	502-7976	-	-
					10'	27 1/2"	502-7975	-	-
6" BASE	4 SPIKES	14" SPIKE 8 HOLE MP-14	65 3/4"	554-4445-2 OR 554-3223-2	8'	15 1/8"	-	502-9787	-
					8'-6"	18 1/8"	-	502-6895	-
					9'	21 1/8"	-	502-9706	-
	4 SPIKES	14" SPIKE 6 HOLE BN/UP	65 3/4"	554-3230-0	8'	15 1/8"	502-7973	-	-
					8'-6"	18 1/8"	502-7974	-	-
					9'	21 1/8"	502-7977	-	-
	6 SPIKES	16" SPIKE 6 HOLE	65 3/4"	554-3240-0	8'-6"	18 1/8"	502-6290	-	502-6893
					9'	21 1/8"	502-9797	-	-
					10'	27 1/8"	502-1024	-	-
	4 SPIKES	16" SPIKE 6 HOLE	65 3/4"	554-3240-2	8'-6"	18 1/8"	-	502-6898	-
					9'	21 1/8"	-	502-6952	-
					10'	27 1/8"	-	502-1026	-
	4 SPIKES	16" SPIKE 6 HOLE UP-16	65 3/4"	554-5334-2	8'-6"	18 1/8"	-	502-6899	-
					9'	21 1/8"	-	502-6950	-
					10'	27 1/8"	-	502-1028	-
	5 SPIKES	16" VICTOR FOR E-CLIPS	65 3/4"	554-4382-0	8'-6"	18 1/8"	502-6855	-	502-1004
					9'	21 1/8"	502-6877	-	-
					10'	27 1/8"	502-6800	-	502-1111
	8 SCREWS	16" ROLLED FOR E-CLIPS	65 3/4"	503-9020-0	8'-6"	18 1/8"	502-7966	-	-
					9'	21 1/8"	502-7888	-	-
					10'	27 1/8"	502-7999	-	-

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