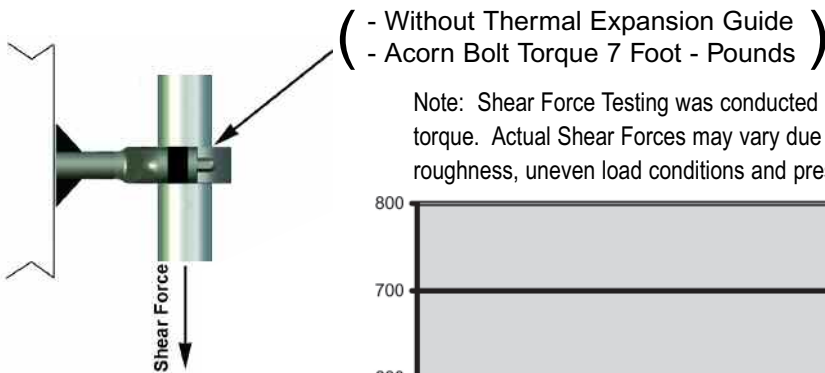


SLOPE CONVERSION CHART, SHEAR FORCE DIAGRAM

Table 1 - Slope by Percentage (%) (most accurate)			Table 2 - Slope by Degrees (°) (second accurate)			Table 3 - Slope by inches/foot (least accurate)			
Percent (%)	Degrees (°)	inches/foot	Degrees (°)	Percent (%)	inches/foot	inches/foot	decimal eq	Percent (%)	Degrees (°)
0.1	0.057	0.012	0.1	0.175	0.021	1/64	0.016	0.130	0.075
0.2	0.115	0.024	0.2	0.349	0.042	1/32	0.031	0.260	0.149
0.3	0.172	0.036	0.3	0.524	0.063	3/64	0.047	0.391	0.224
0.4	0.229	0.048	0.4	0.698	0.084	1/16	0.063	0.521	0.298
0.5	0.286	0.060	0.5	0.873	0.105	5/64	0.078	0.651	0.373
0.6	0.344	0.072	0.6	1.047	0.126	3/32	0.094	0.781	0.448
0.7	0.401	0.084	0.7	1.222	0.147	7/64	0.109	0.911	0.522
0.8	0.458	0.096	0.8	1.396	0.168	1/8	0.125	1.042	0.597
0.9	0.516	0.108	0.9	1.571	0.189	9/64	0.141	1.172	0.671
1.0	0.573	0.120	1.0	1.746	0.209	5/32	0.156	1.302	0.746
1.1	0.630	0.132	1.1	1.925	0.231	11/64	0.172	1.432	0.821
1.2	0.688	0.144	1.2	2.100	0.252	3/16	0.188	1.563	0.895
1.3	0.745	0.156	1.3	2.275	0.273	13/64	0.203	1.693	0.970
1.4	0.802	0.168	1.4	2.450	0.294	7/32	0.219	1.823	1.044
1.5	0.859	0.180	1.5	2.625	0.315	15/64	0.234	1.953	1.119
1.6	0.917	0.192	1.6	2.800	0.336	1/4	0.250	2.083	1.193
1.7	0.974	0.204	1.7	2.975	0.357	5/16	0.313	2.604	1.492
1.8	1.031	0.216	1.8	3.150	0.378	3/8	0.375	3.125	1.790
1.9	1.088	0.228	1.9	3.325	0.399	7/16	0.438	3.646	2.088
2.0	1.146	0.240	2.0	3.492	0.419	1/2	0.500	4.167	2.386



Note: Shear Force Testing was conducted under controlled conditions and with manufacturers recommended bolt torque. Actual Shear Forces may vary due to specific process conditions such as temperature, tube surface roughness, uneven load conditions and presence of line shock and/or vibration.

