In this study, composition of phenolics in axes and ocrea of fresh cones from four different Turkish native fir species were studied. Phenolic components consisted of mainly phenolic acids, lignans and sterols. Total contents of phenolics in axis parts were 0.64 mg/g in A. equi-trojani, 1.24 mg/g in A. cilicica, 0.89 mg/g in A. nordmanniana and 2.3 mg/g in A. bormülleriana. The amounts were 0.3 mg/g, 0.87 mg/g, 0.76 mg/g and 1.97 mg/g in ocrea respectively. Significant differences were detected both in the composition of the species both in axis and ocrea for lignan composition. While nortachelogenin was found only in the ocrea, lariiresinol and pinoresinol were seen in the axes. The amount of matairesinol was found to be higher in axes then ocrea.