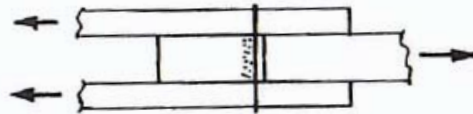
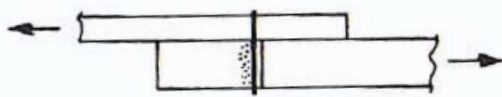
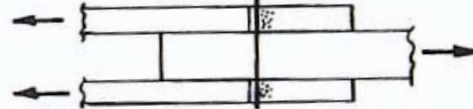
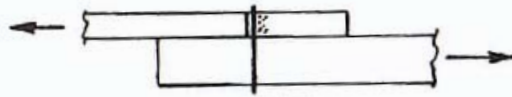


EXAMPLE 11.9 Yield Modes

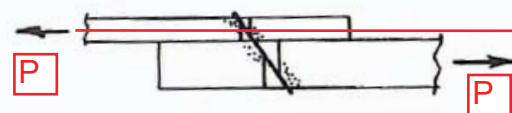
Dowel-type fasteners can yield in several modes. See Fig. 11.10. These modes are also sketched in *NDS Appendix I*.



MODE I_m - CRUSHING IN MAIN MEMBER



MODE I_s - CRUSHING IN SIDE MEMBER



MODE II - ROTATION OF FASTENER



MODE III_m - PLASTIC HINGE & CRUSHING IN MAIN MEMBER



MODE III_s - PLASTIC HINGE & CRUSHING IN SIDE MEMBER



MODE IV - TWO PLASTIC HINGES PER SHEAR PLANE

SINGLE SHEAR

DOUBLE SHEAR

Figure 11.10 Four basic yield modes in dowel-type connections.