Flexural Test for Steel-Concrete Composite Members Using Pss0sricratedt

In the present investigations, as a fundamental study for PSRC columns simply supported PSRC specimens were tested to investigate the flexural and shear strengths, shear transfer between steel angle and concrete, and strength at the weld joint between steel angle and transverse rebar tie, which are fundamental structural capacities of actual PSRC columns subjected to combined lateral

of the tie bars of S4 and S5 was increased to s = 200 and 300 mm, respectively (Fig. 3 and Table 1).

preheating to 60–160°C for welding of SS540 steel grade with high C_{eq} Ceq

Fig. 5. Moment-curvature relationships at the center span of specimens: (a) S1; (b) S2; (c) S3; (d) S4; (e) S5; (f) S6; (g) S7; (h) S8; (i) definition of stiffness and curvature ductility

S1. The maximum tensile strains of the steel angles were 0.0058–0.0207 mm=

(500 × 500

and E_{sh} =