

Appendix C

Design Charts for fly ash concrete

C1. Design Chart for Compressive Strength of Fly Ash Concrete

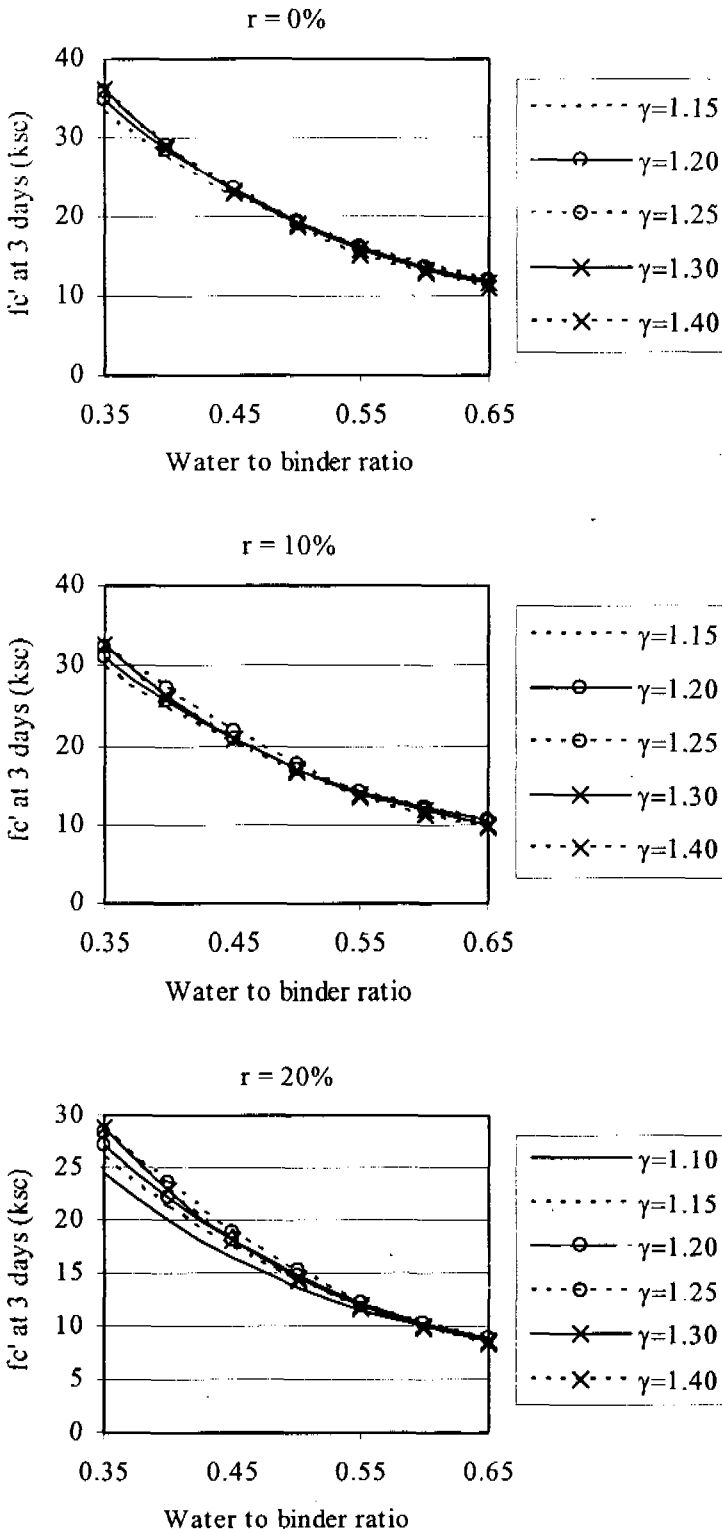


Fig. C1-1 Compressive strength at 3 days (Cement only and fly ash 2a)

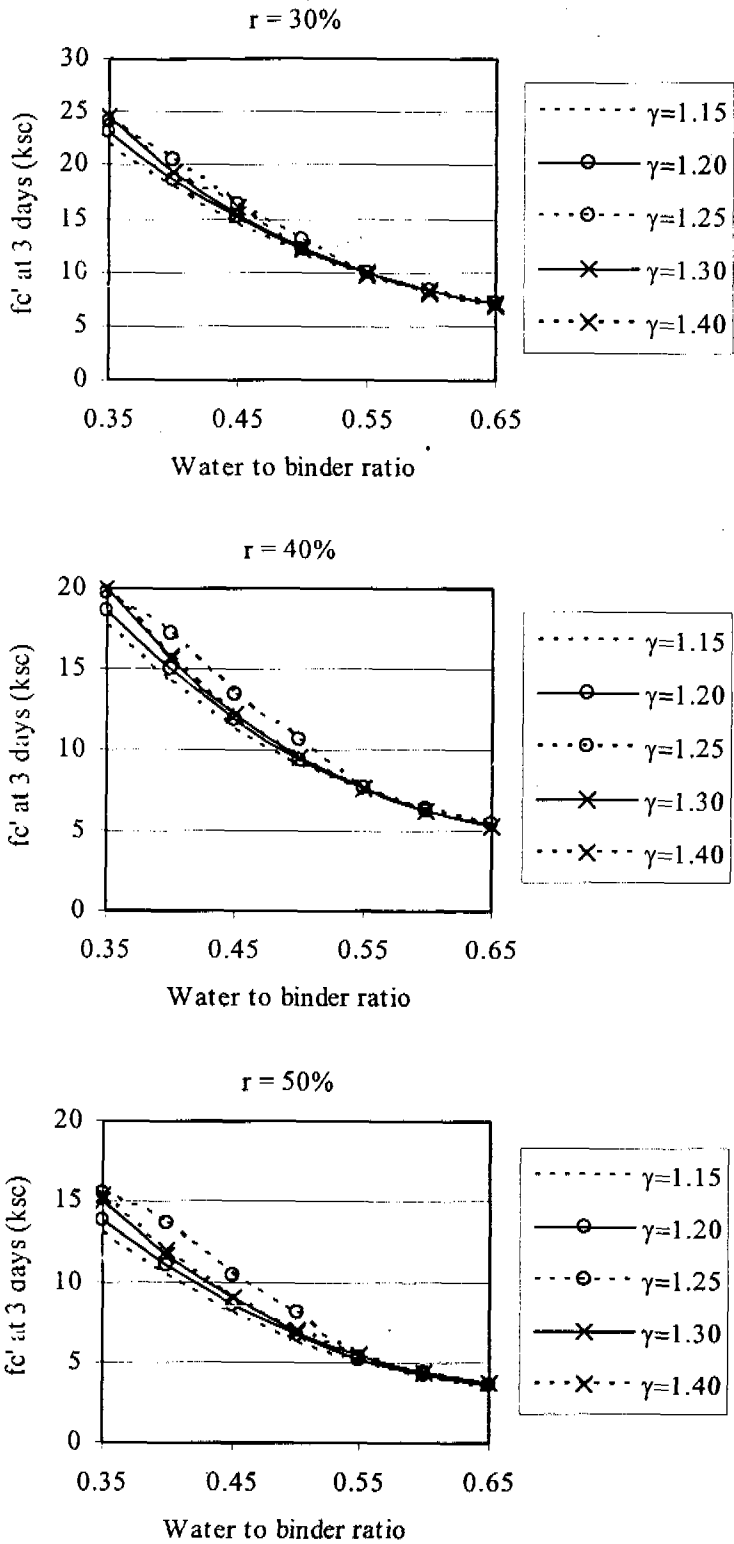


Fig. C1-1 (Continue) Compressive strength at 3 days (Cement only and fly ash 2a)

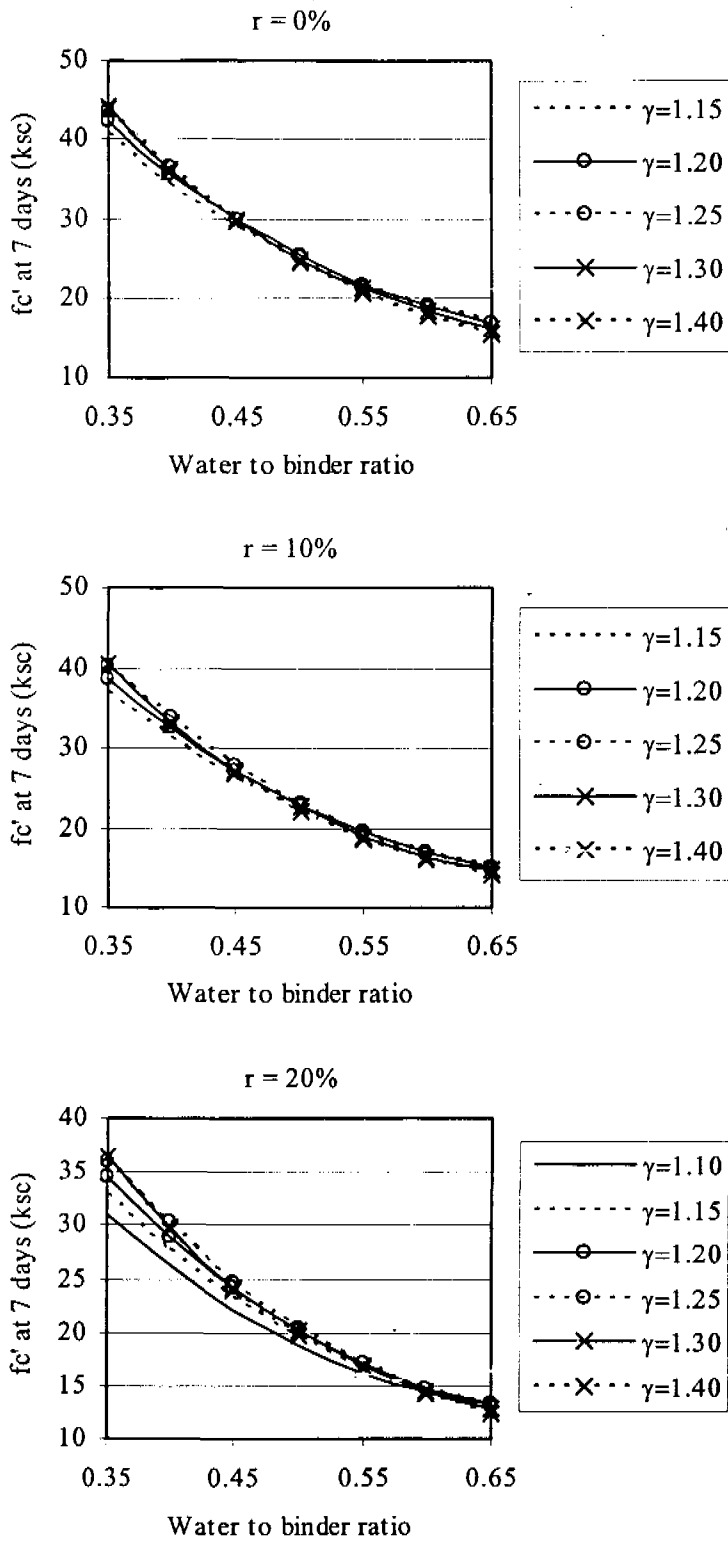


Fig. C1-2 Compressive strength at 7 days (Cement only and fly ash 2a)

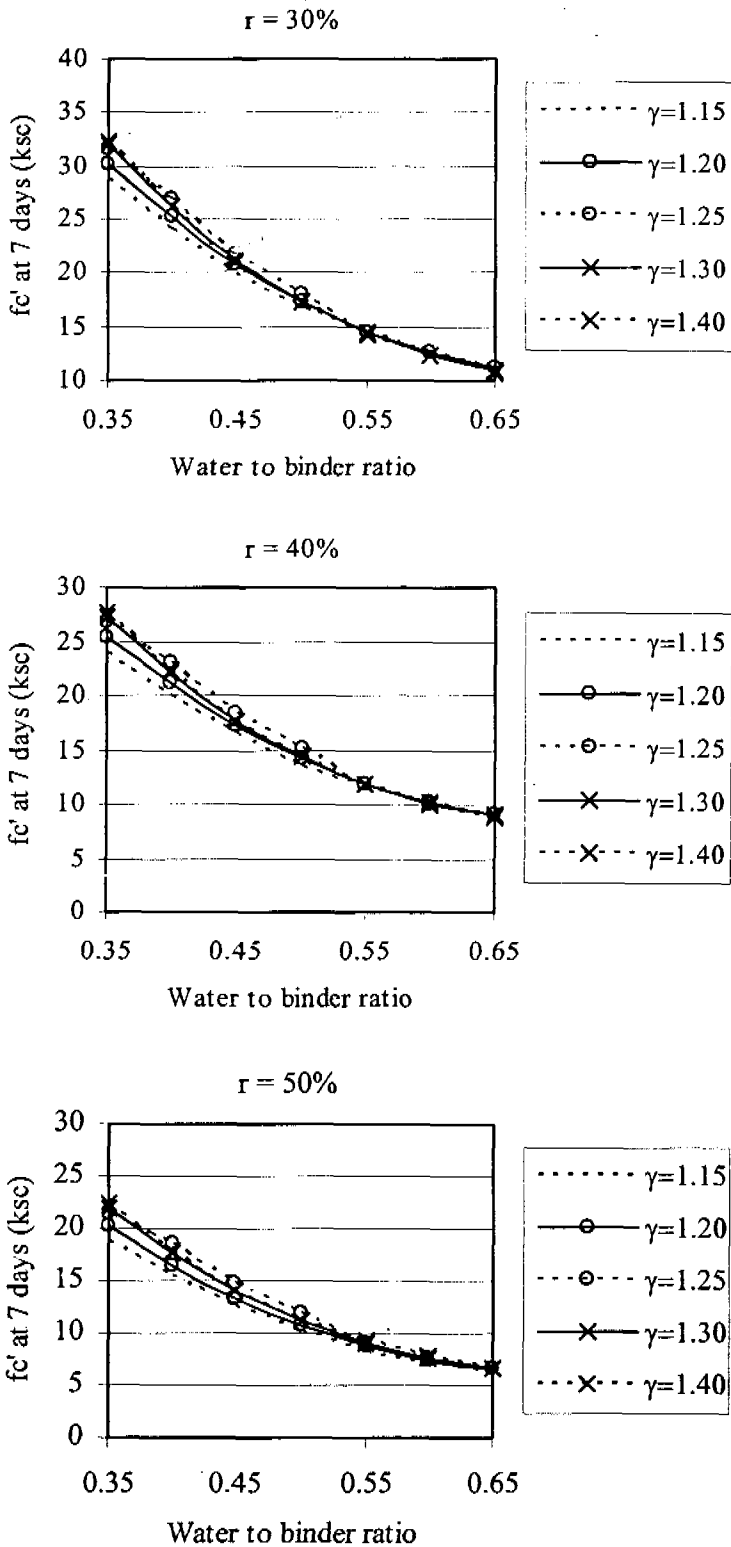


Fig. C1-2 (Continue) Compressive strength at 7 days (Cement only and fly ash 2a)

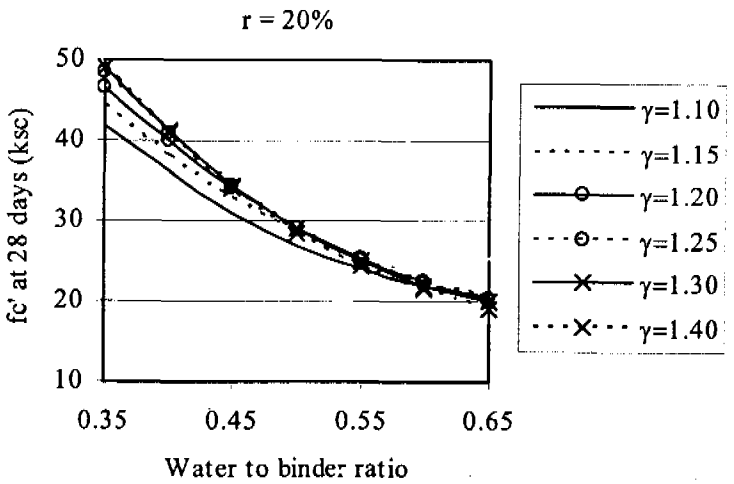
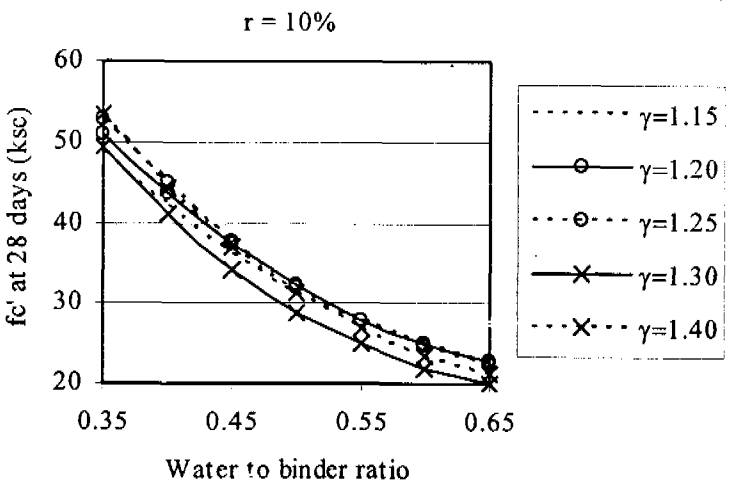
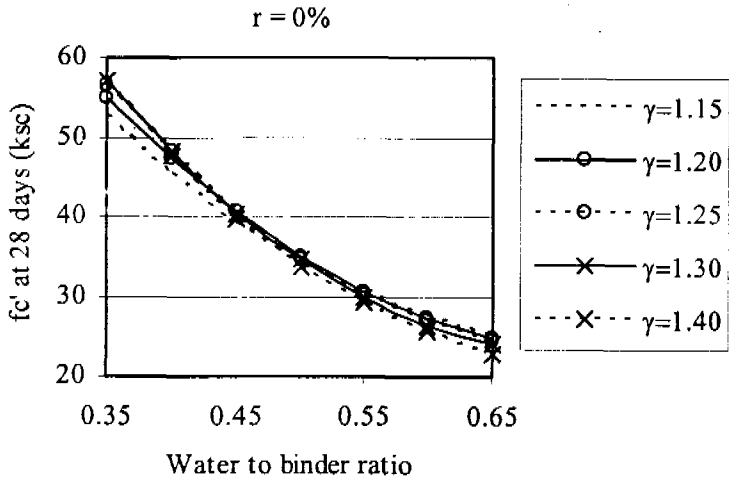


Fig. C1-3 Compressive strength at 28 days (Cement only and fly ash 2a)

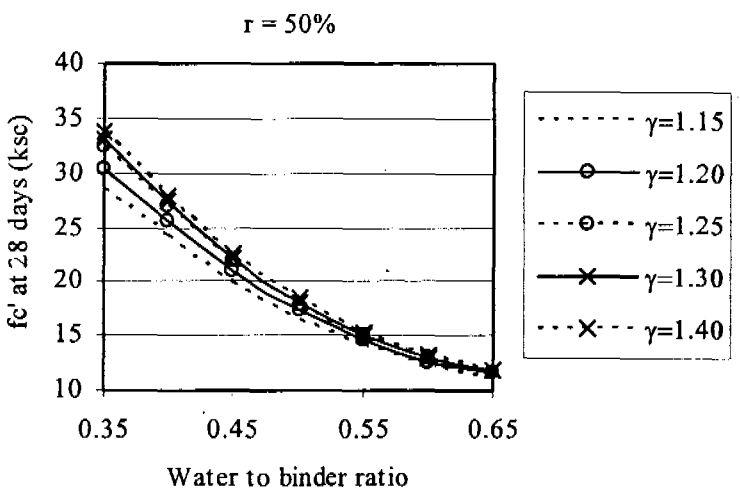
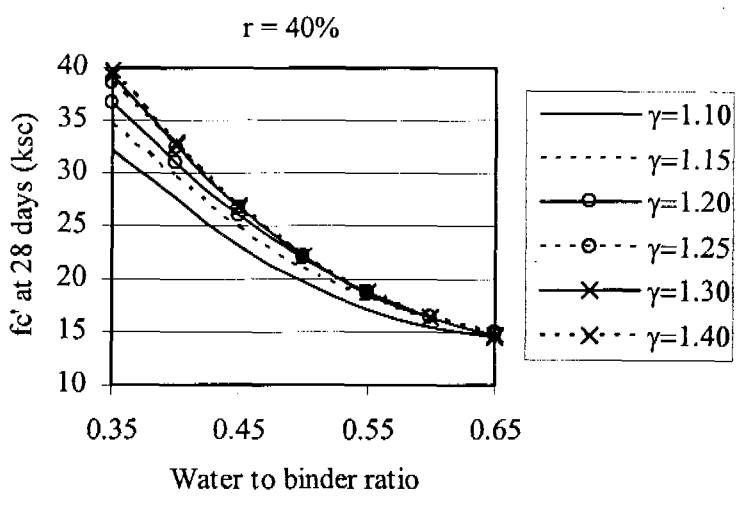
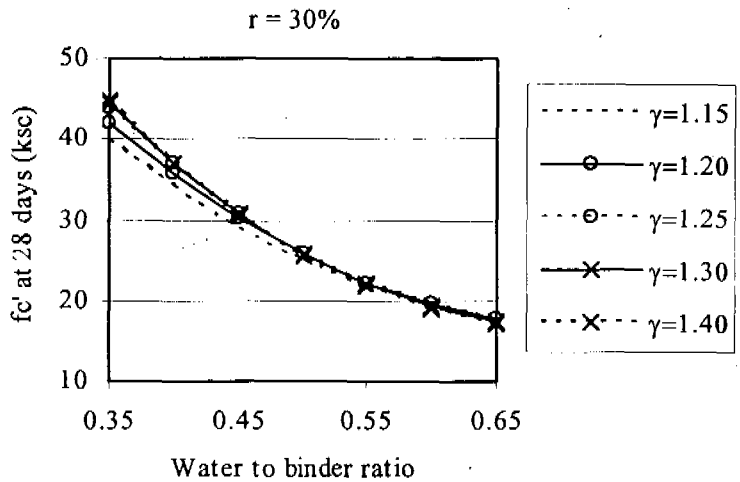


Fig. C1-3 (Continue) Compressive strength at 28 days (Cement only and fly ash 2a)

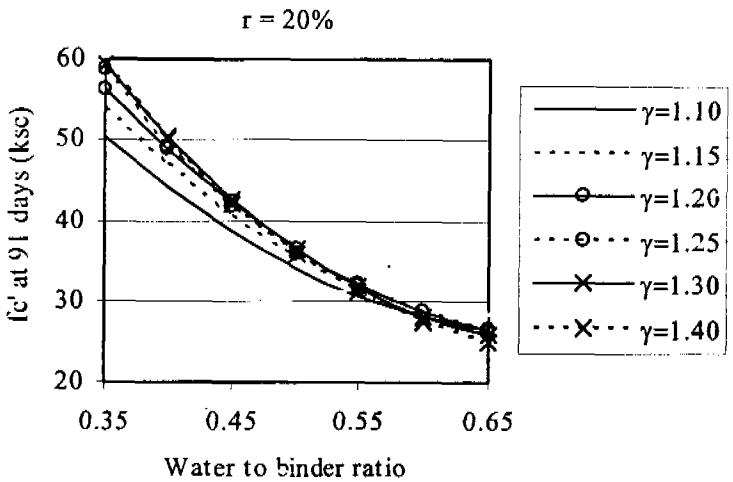
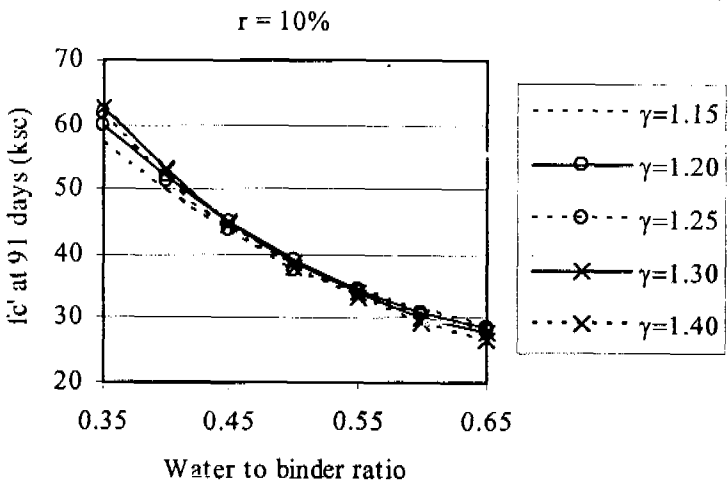
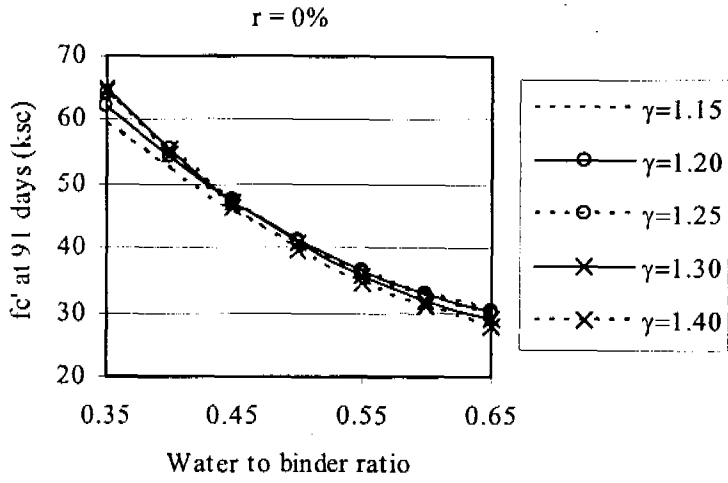


Fig. C1-4 (Continue) Compressive strength at 91 days (Cement only and fly ash 2a)

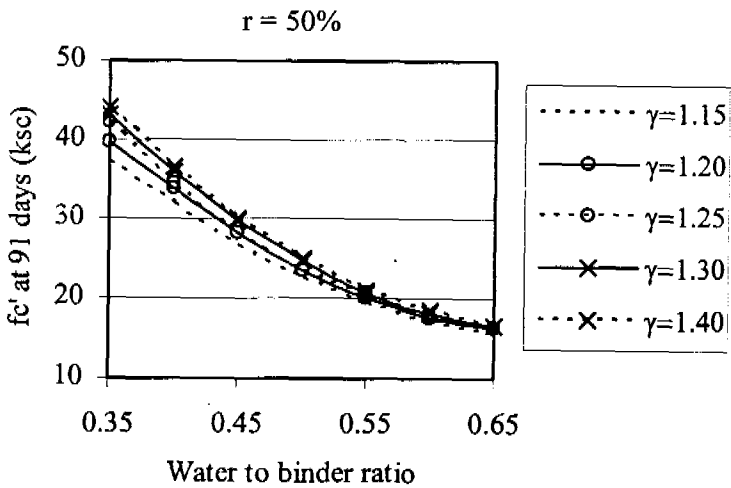
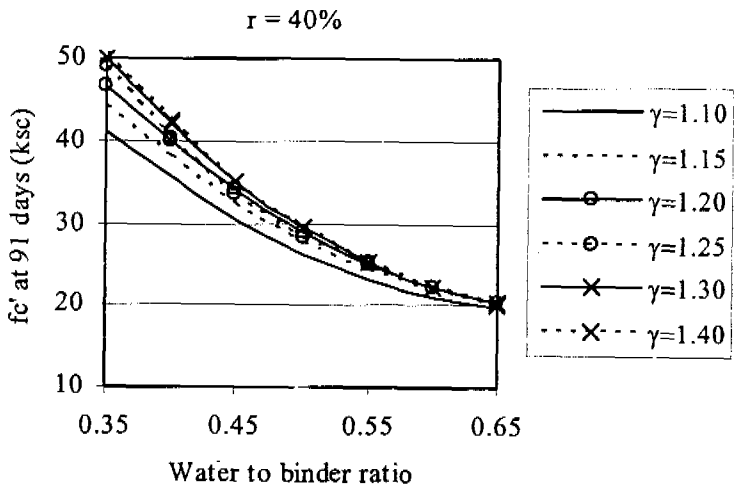
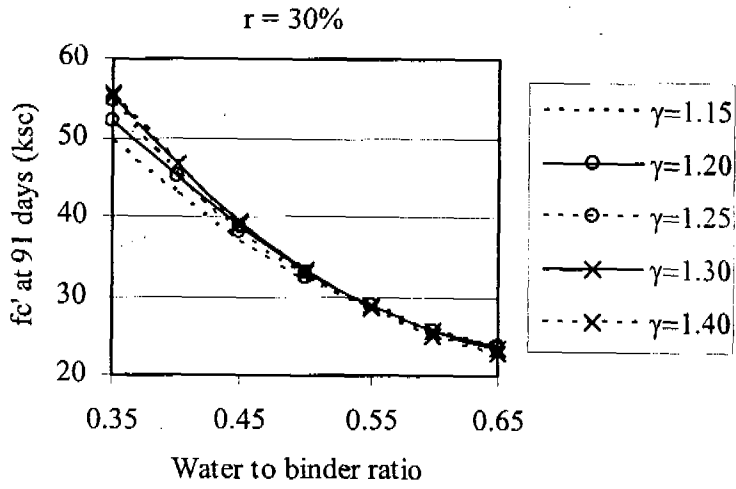


Fig. C1-4 (Continue) Compressive strength at 91 days (Cement only and fly ash 2a)

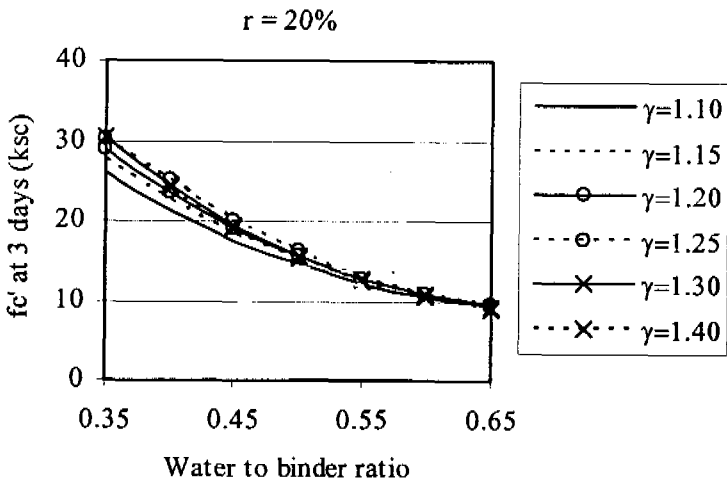
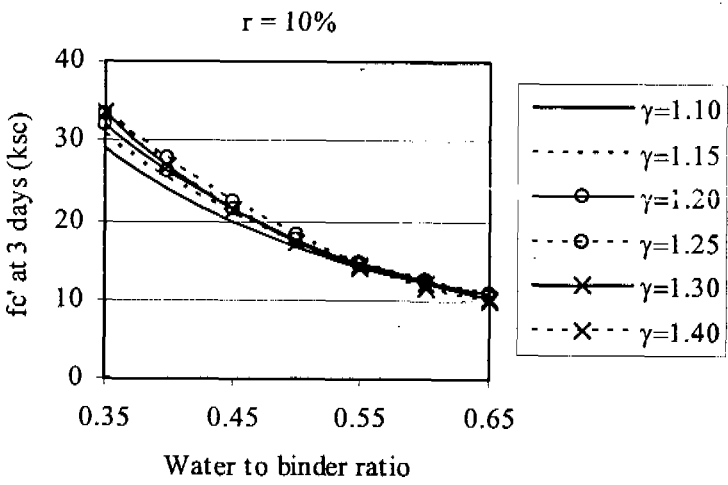
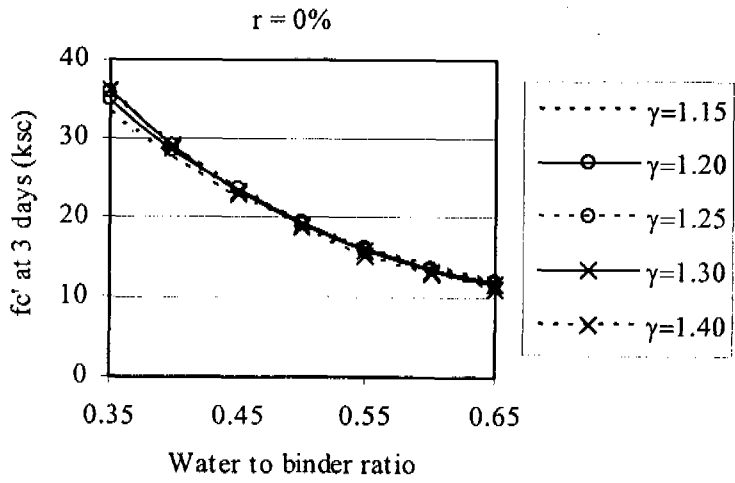


Fig. C1-5 Compressive strength at 3 days (Cement only and fly ash 2b)

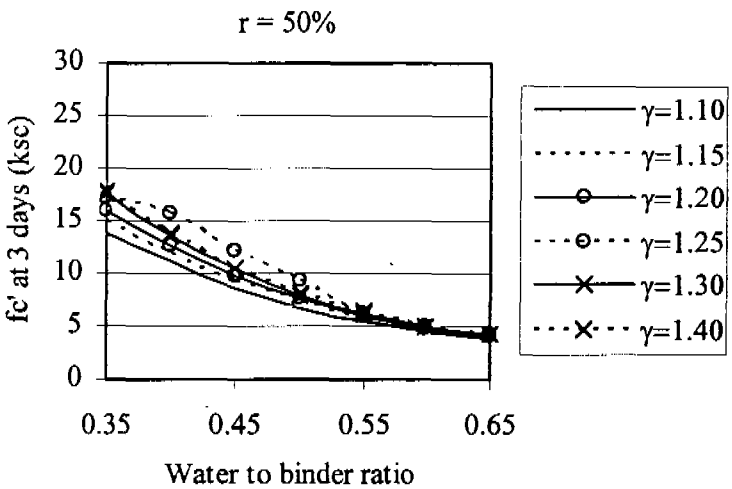
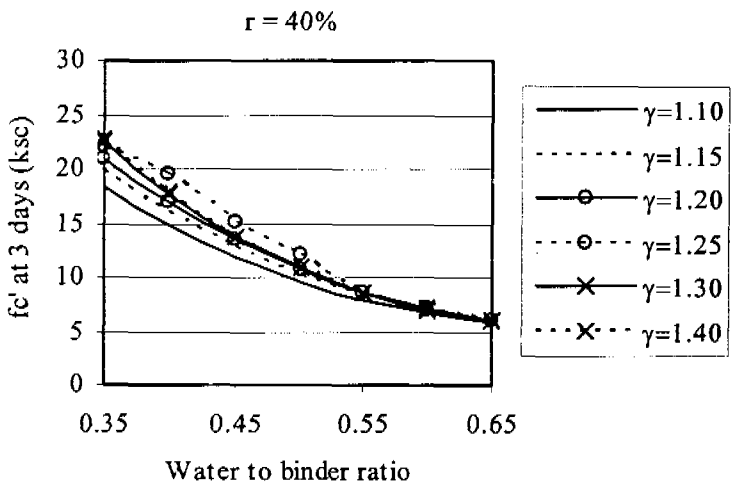
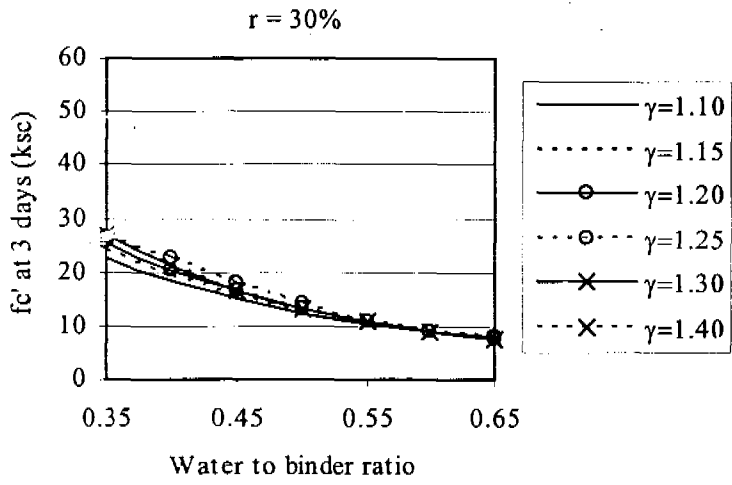


Fig. C1-5 (Continue) Compressive strength at 3 days (Cement only and fly ash 2b)

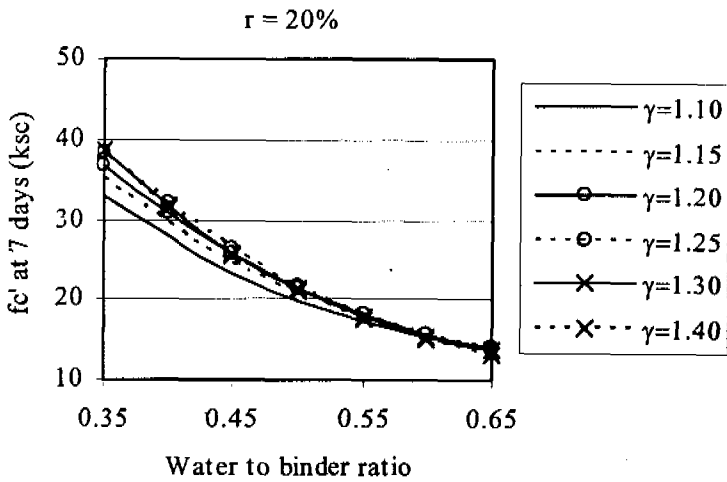
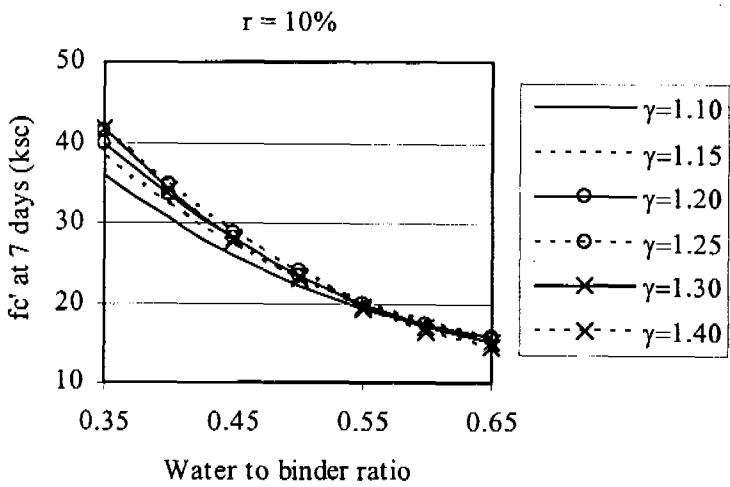
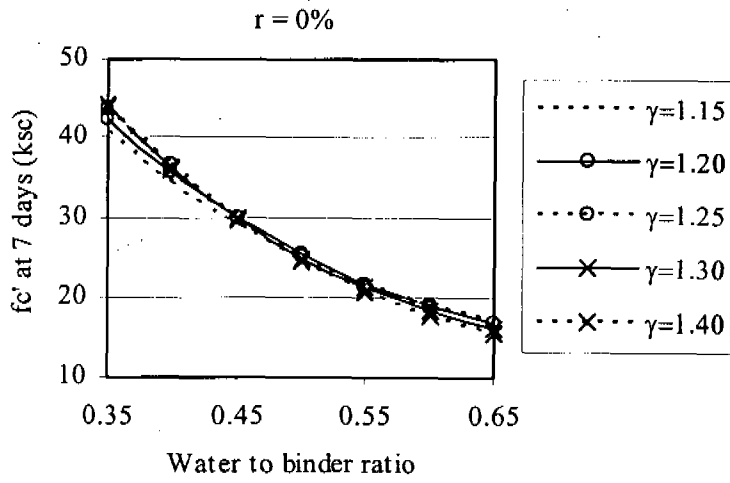


Fig. C1-6 Compressive strength at 7 days (Cement only and fly ash 2b)

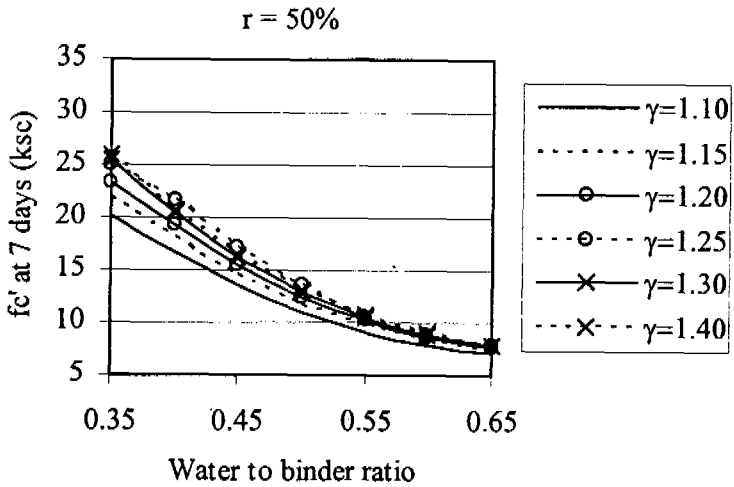
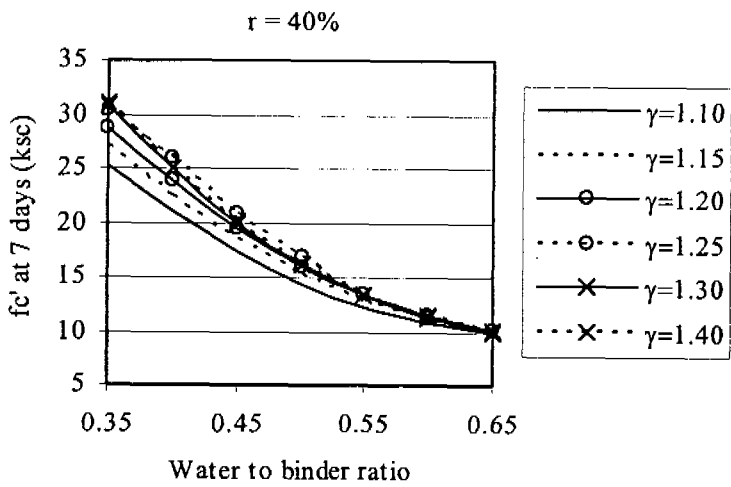
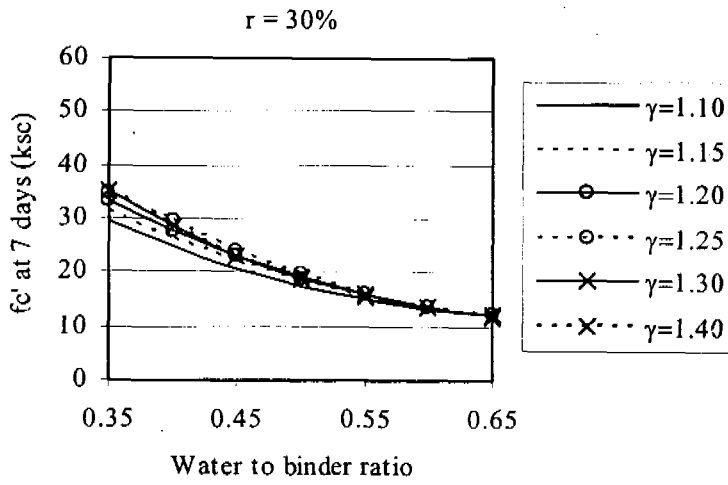


Fig. C1-6 (Continue) Compressive strength at 7 days (Cement only and fly ash 2b)

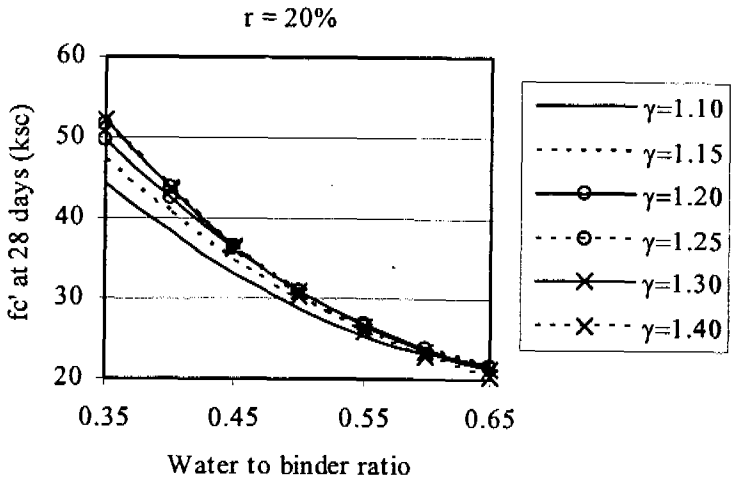
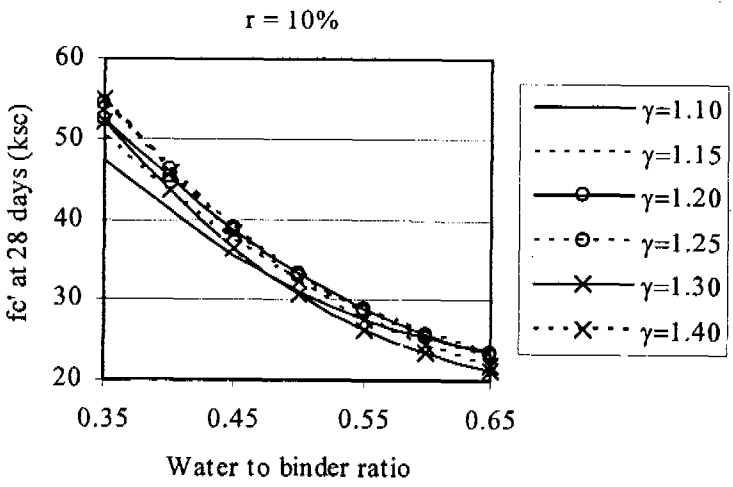
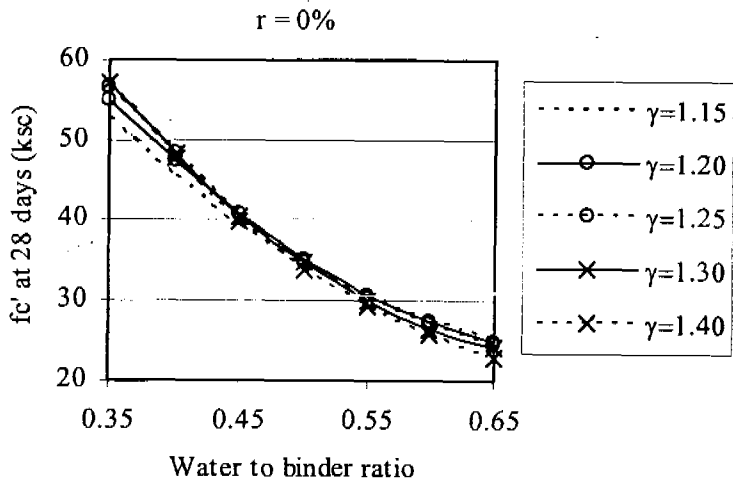


Fig. C1-7 Compressive strength at 28 days (Cement only and fly ash 2b)

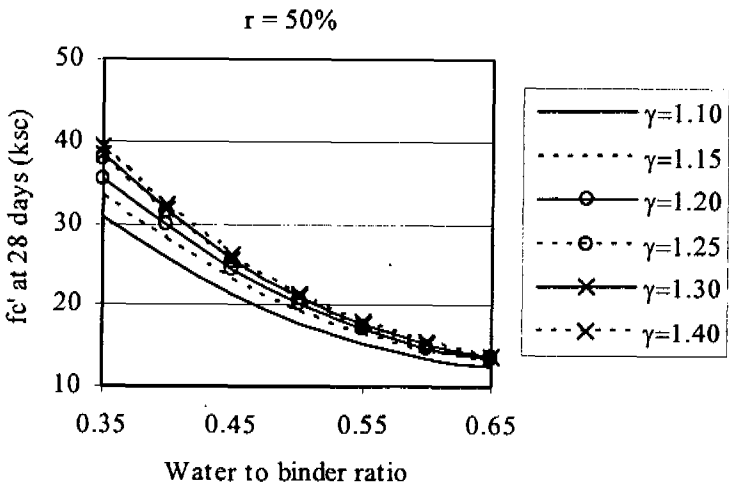
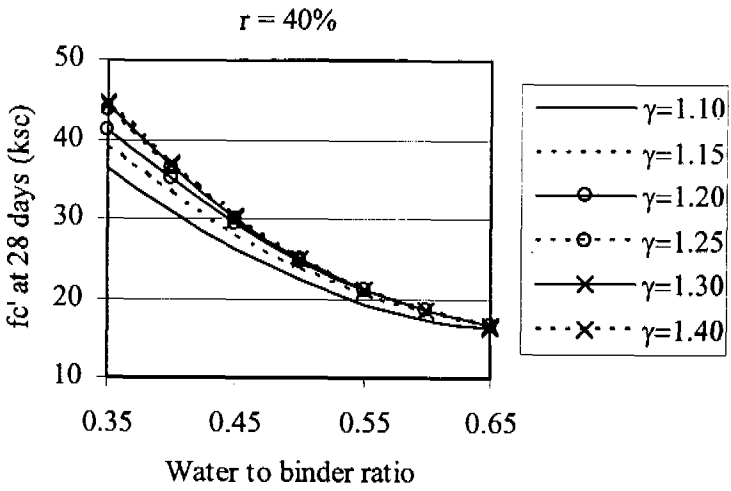
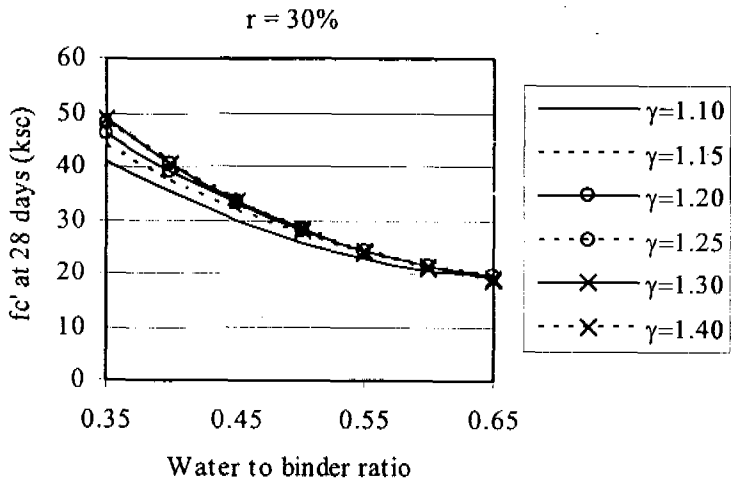


Fig. C1-7 (Continue) Compressive strength at 28 days (Cement only and fly ash 2b)

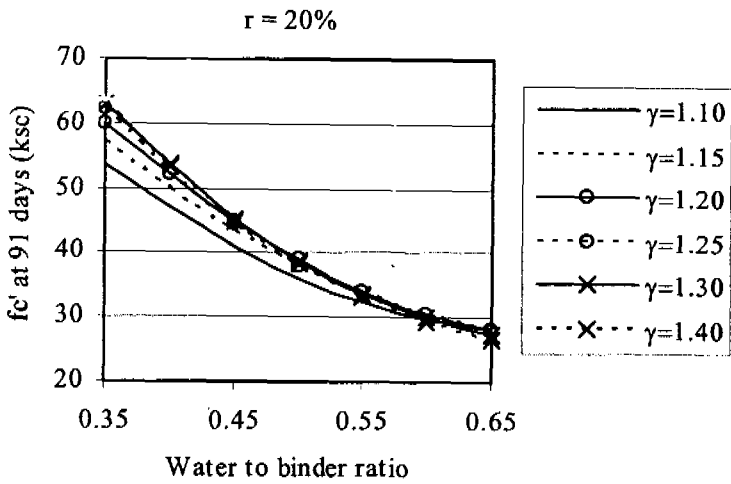
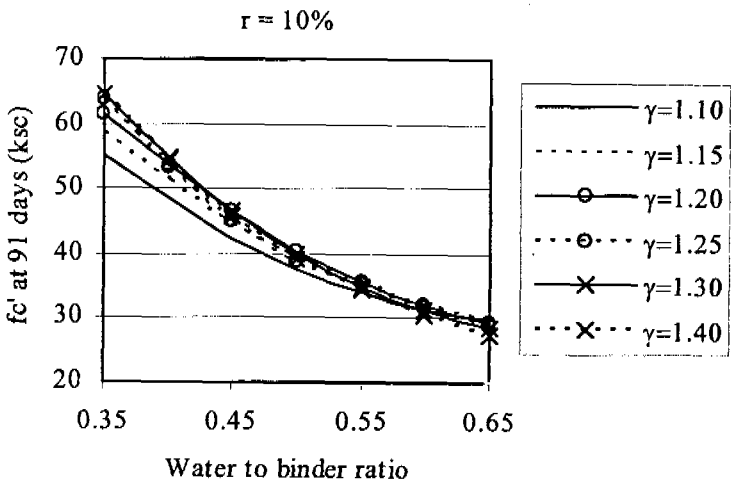
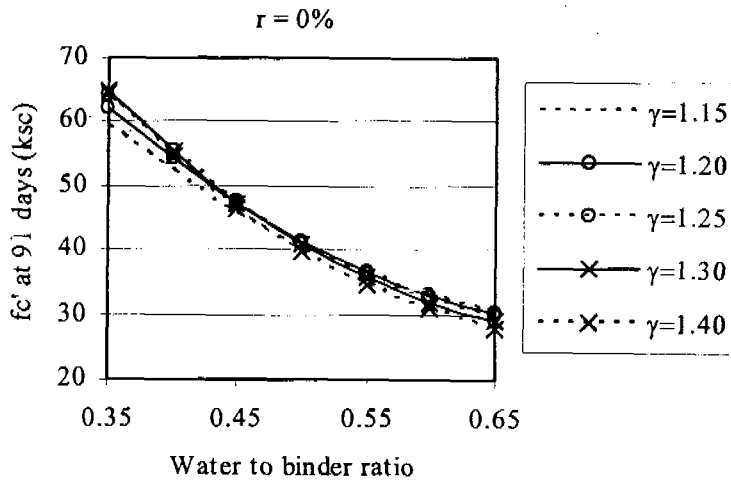


Fig. C1-8 Compressive strength at 91 days (Cement only and fly ash 2b)

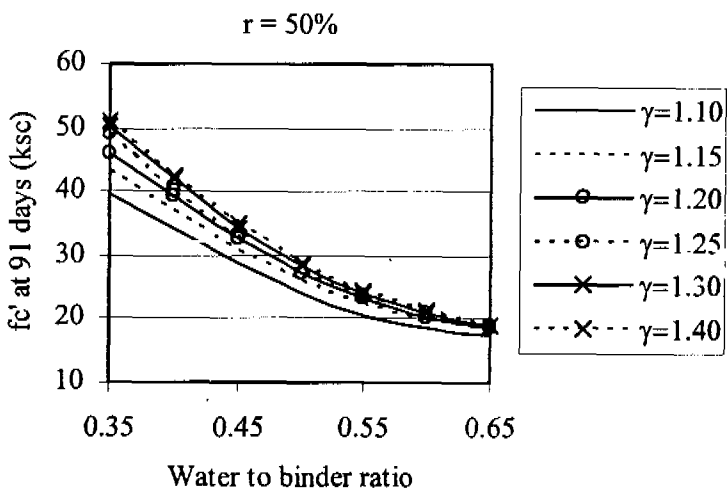
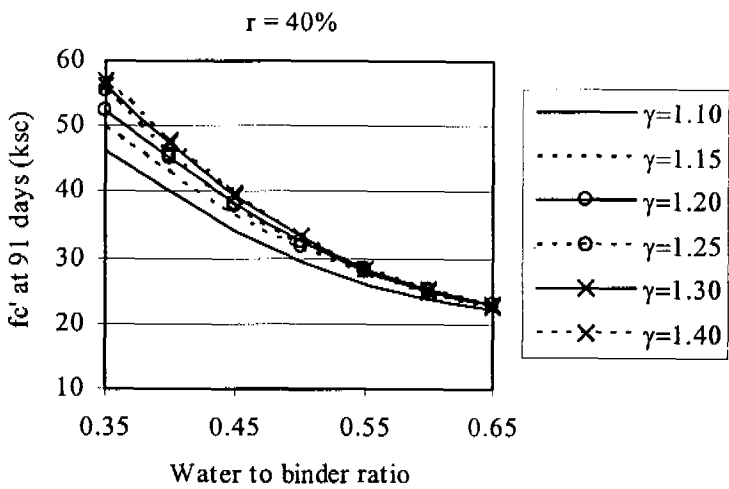
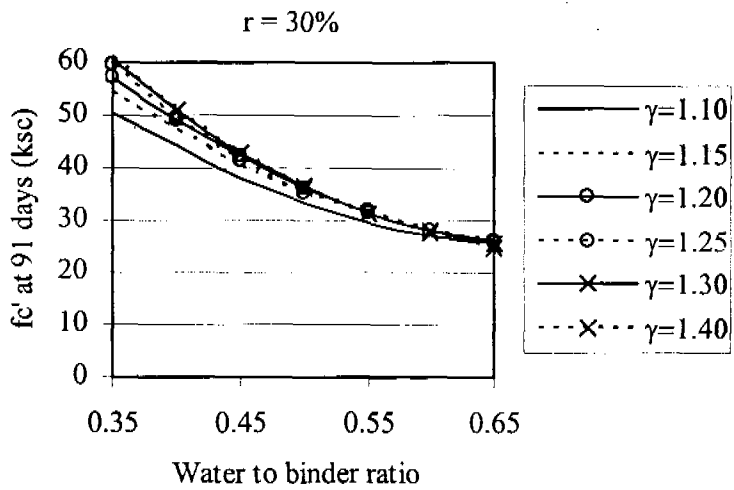


Fig. C1-8 (Continue) Compressive strength at 91 days (Cement only and fly ash 2b)

C2. Design Chart for Maintenance Free Period of Concrete Due to Carbonation

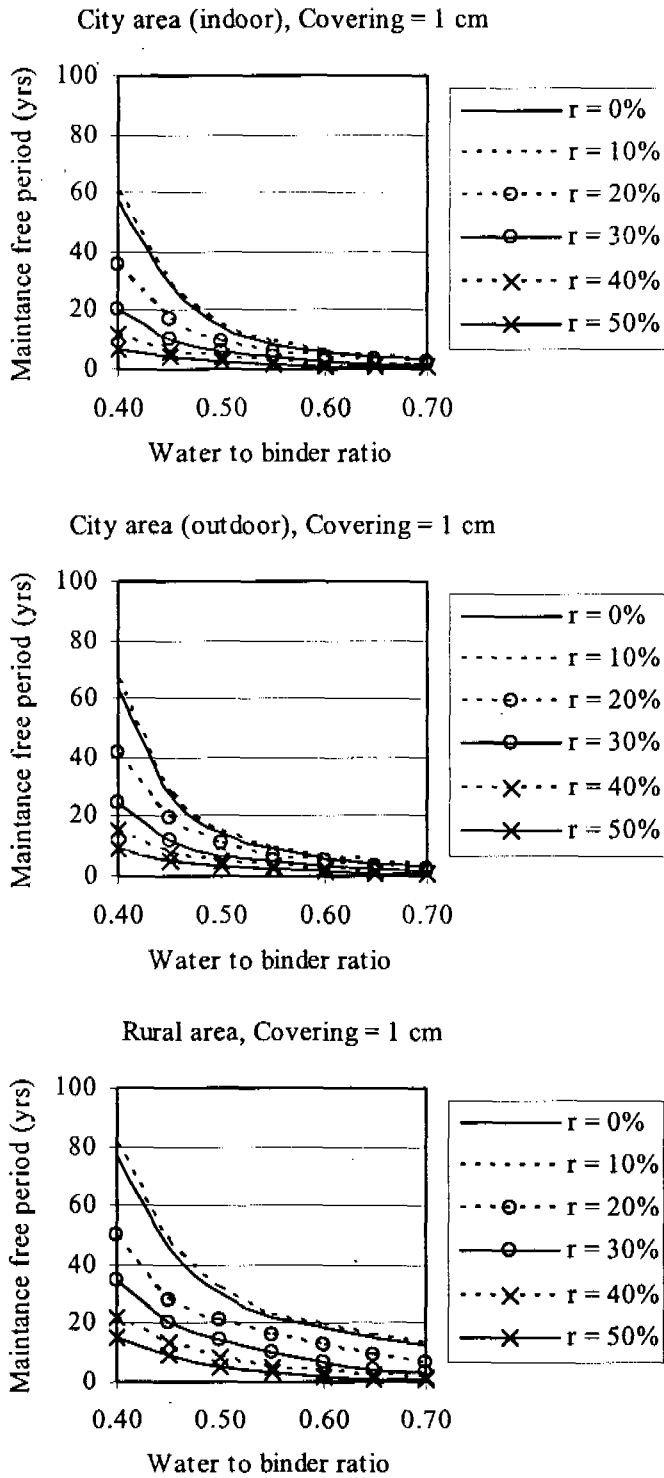


Fig. C2-1 Maintenance free period of concrete for covering of 1 cm (fly ash 2a)

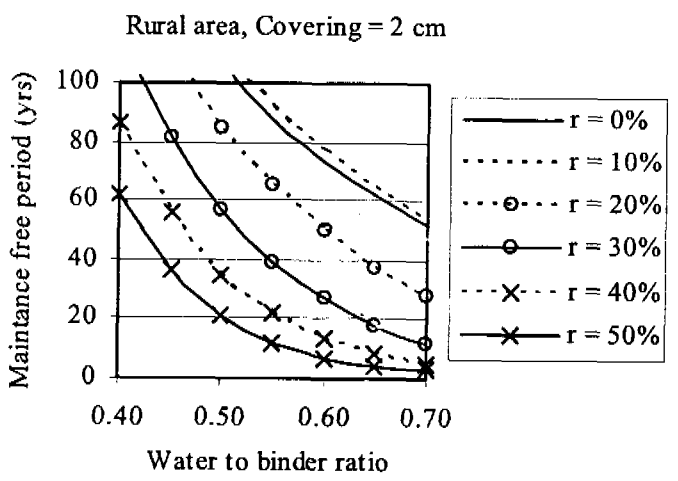
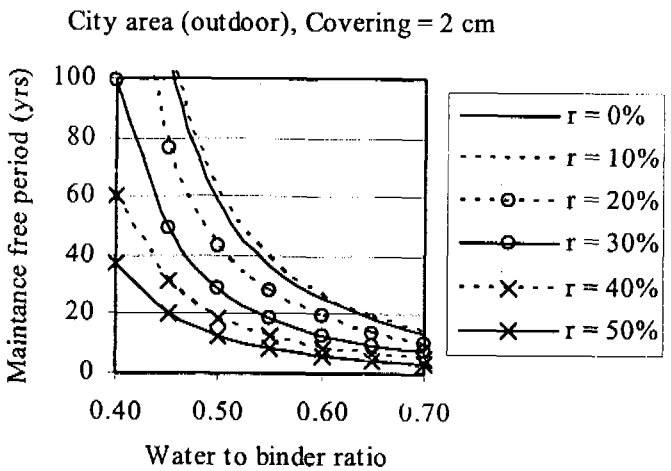
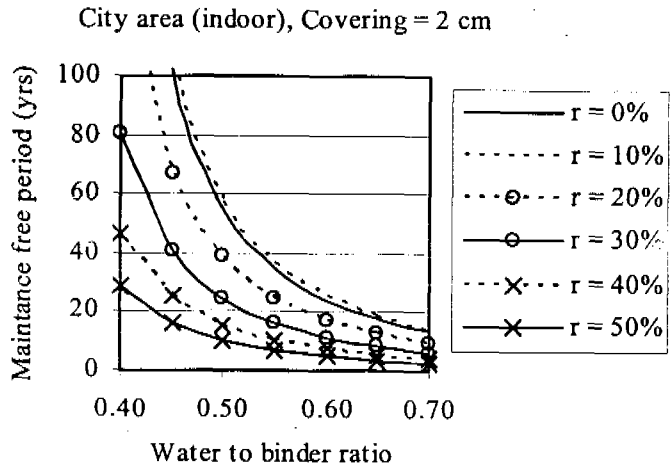


Fig. C2-2 Maintenance free period of concrete for covering of 2 cm (fly ash 2a)

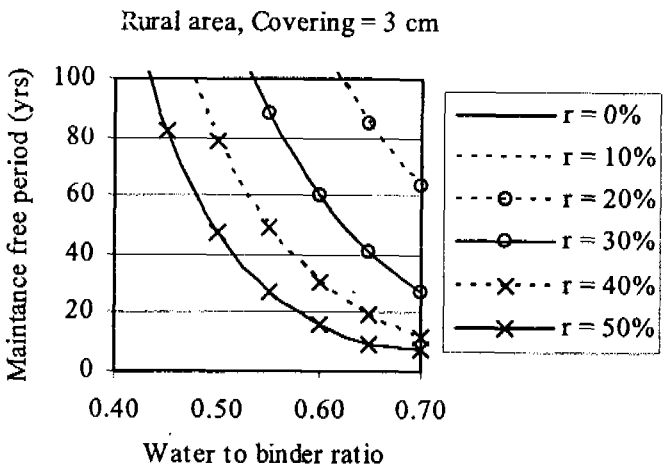
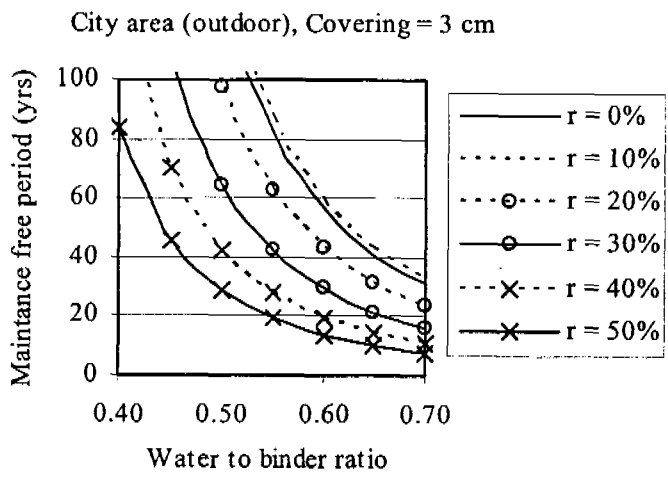
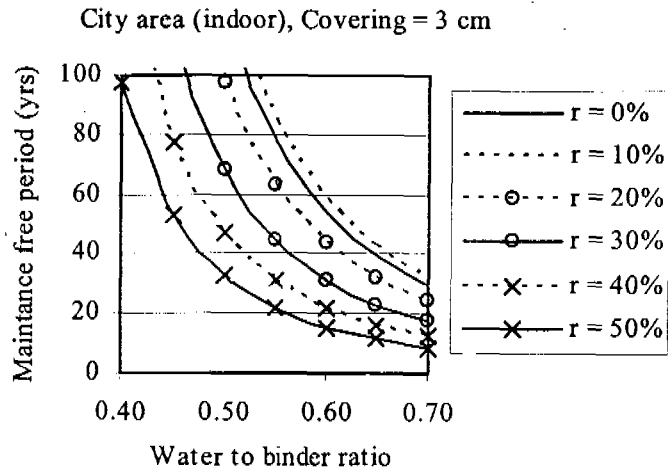


Fig. C2-3 Maintenance free period of concrete for covering of 3 cm (fly ash 2a)

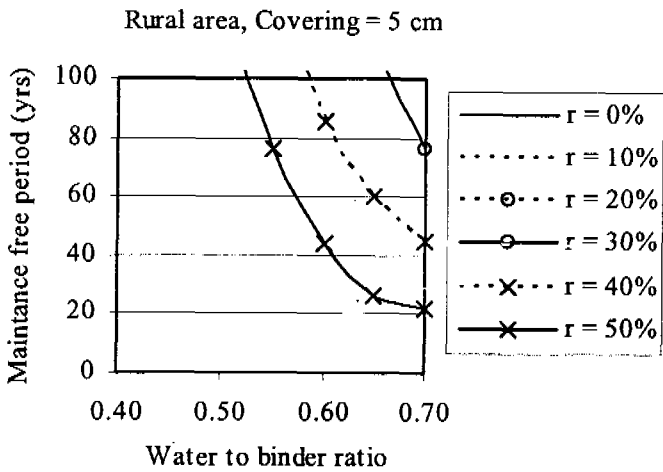
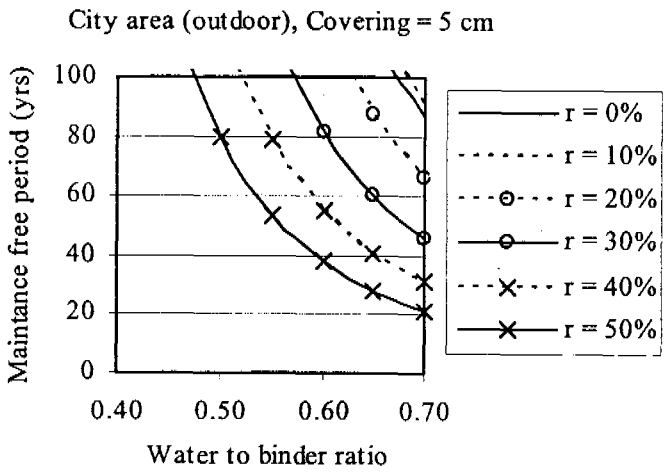
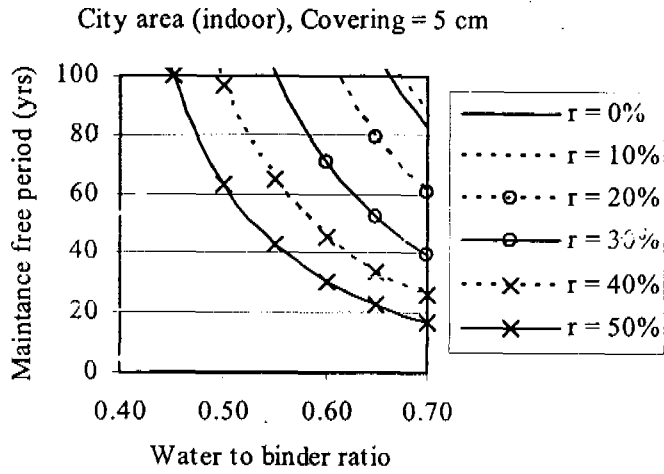
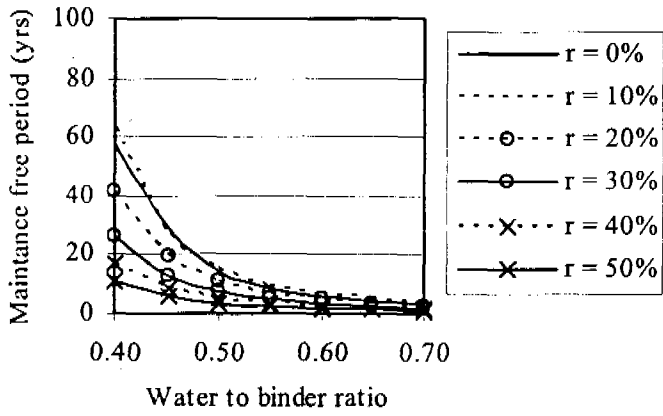
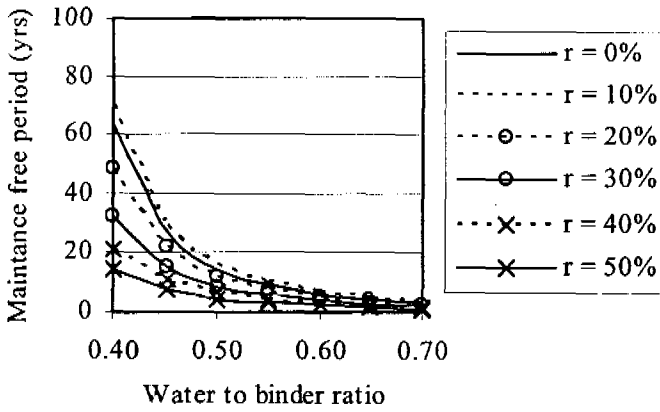


Fig. C2-4 Maintenance free period of concrete for covering of 5 cm (fly ash 2a)

City area (indoor), Covering = 1 cm



City area (outdoor), Covering = 1 cm



Rural area, Covering = 1 cm

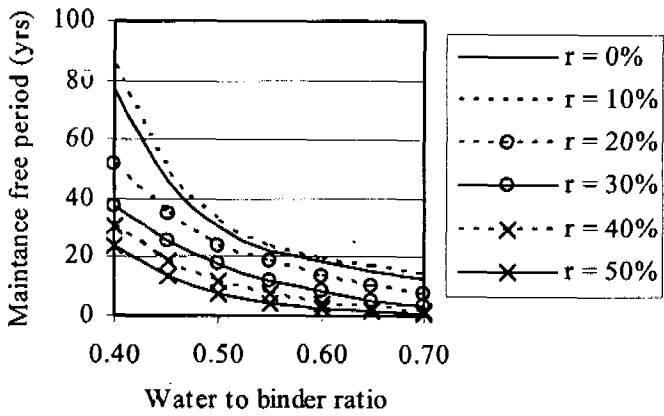


Fig. C2-5 Maintenance free period of concrete for covering of 1 cm (fly ash 2b)

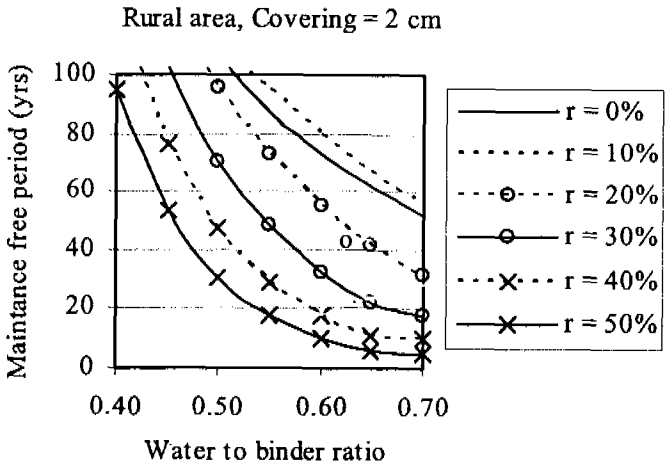
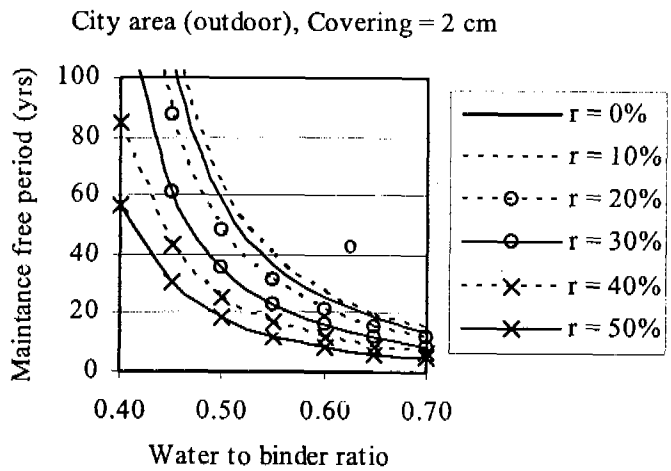
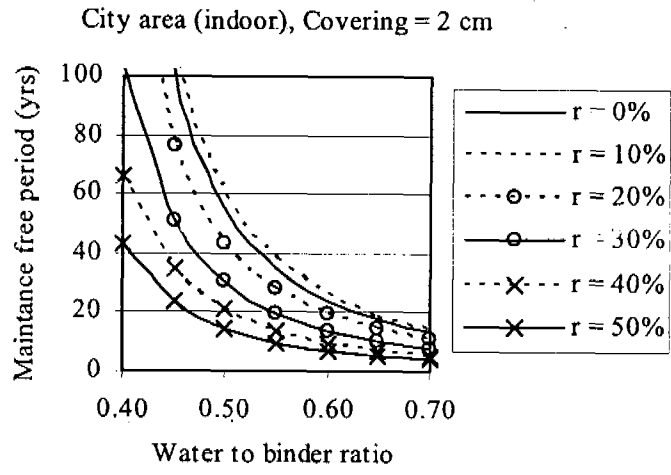


Fig. C2-6 Maintenance free period of concrete for covering of 2 cm (fly ash 2b)

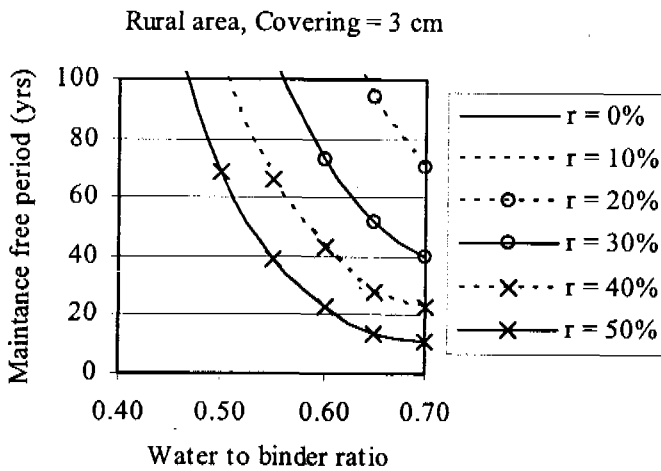
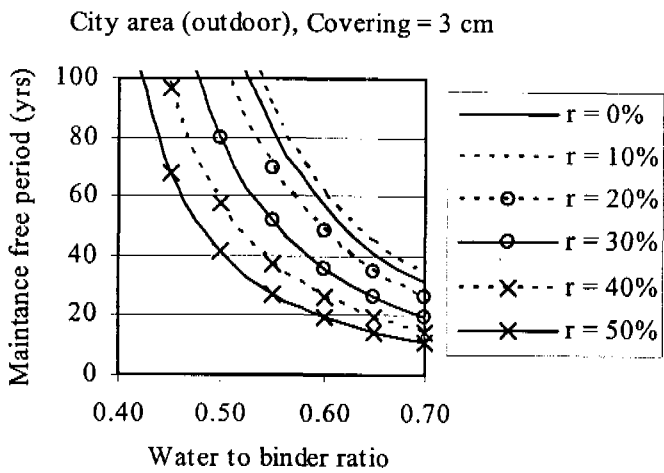
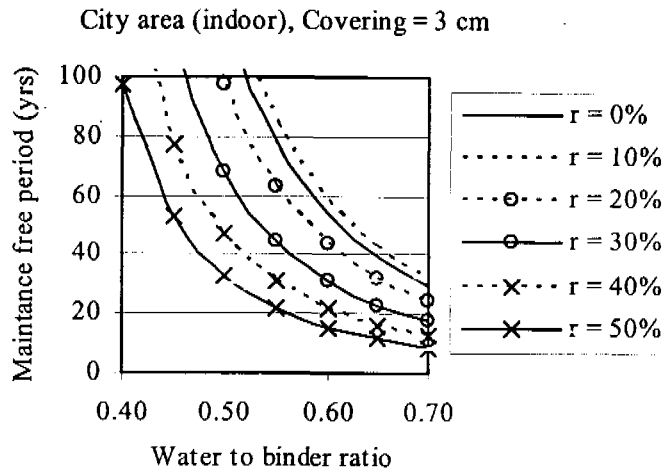
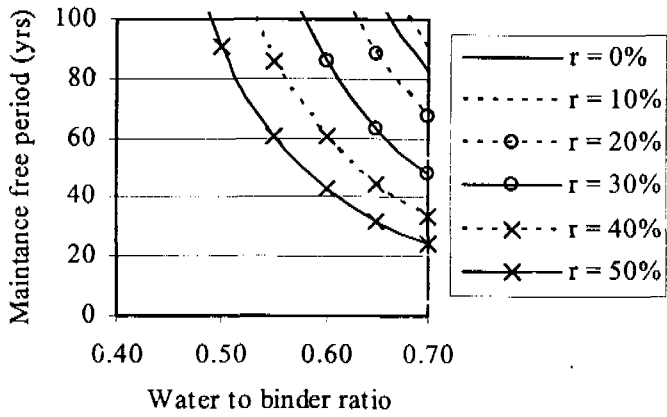
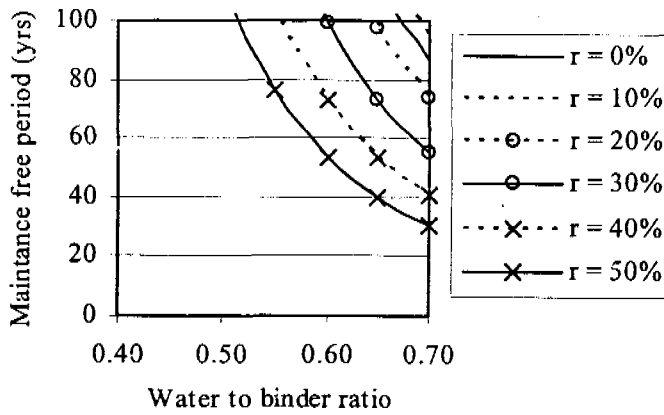


Fig. C2-7 Maintenance free period of concrete for covering of 3 cm (fly ash 2b)

City area (indoor), Covering = 5 cm



City area (outdoor), Covering = 5 cm



Rural area, Covering = 5 cm

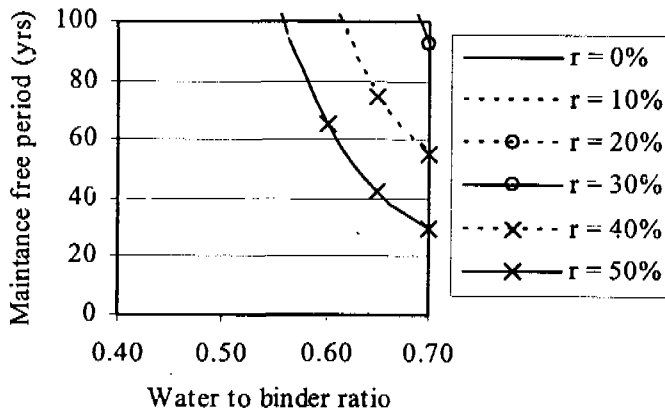


Fig. C2-8 Maintenance free period of concrete for covering of 5 cm (fly ash 2b)

C3. Design Chart for Slump of Fly Ash Concrete

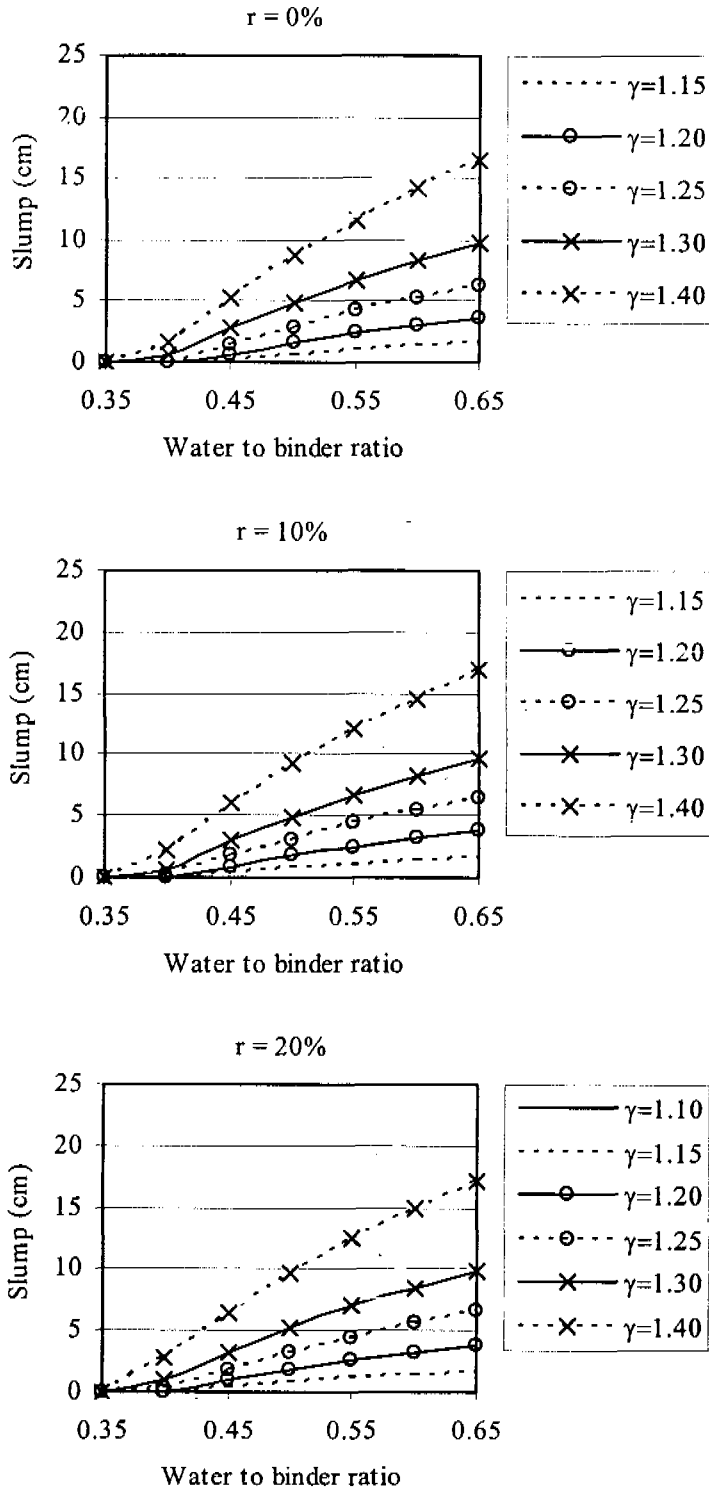


Fig. C3-1 Slump of fly ash concrete (FM = 2.25)

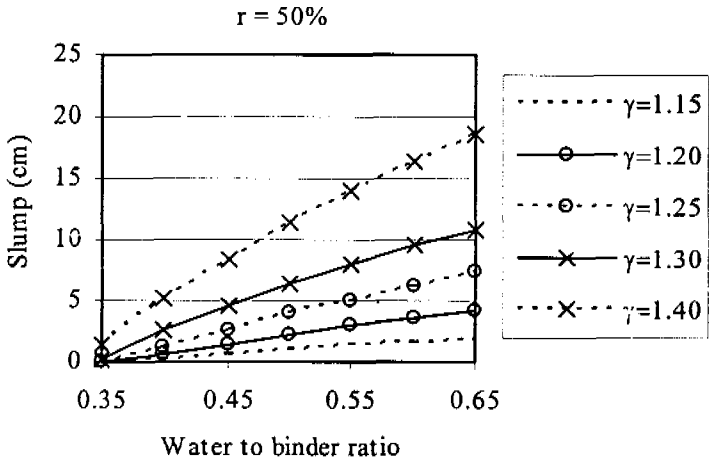
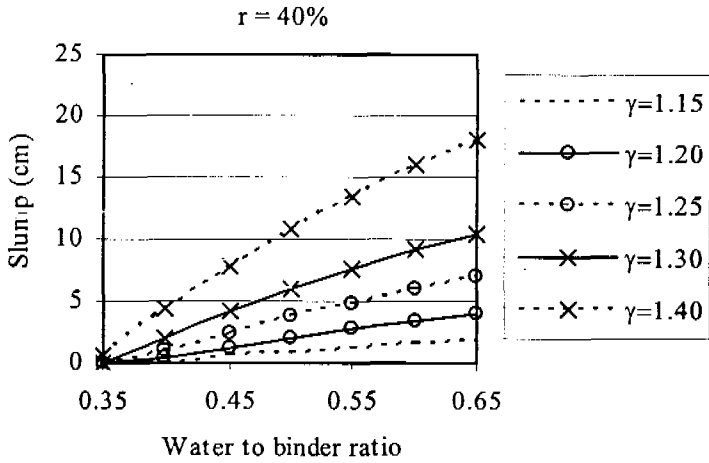
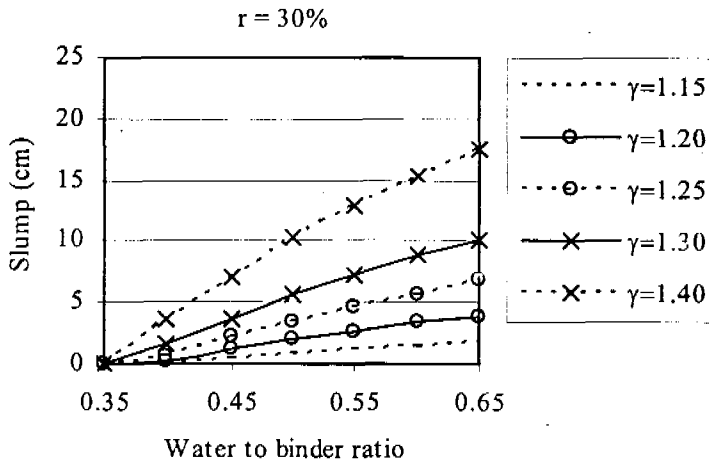


Fig. C3-1 (Continue) Slump of fly ash concrete (FM = 2.25)

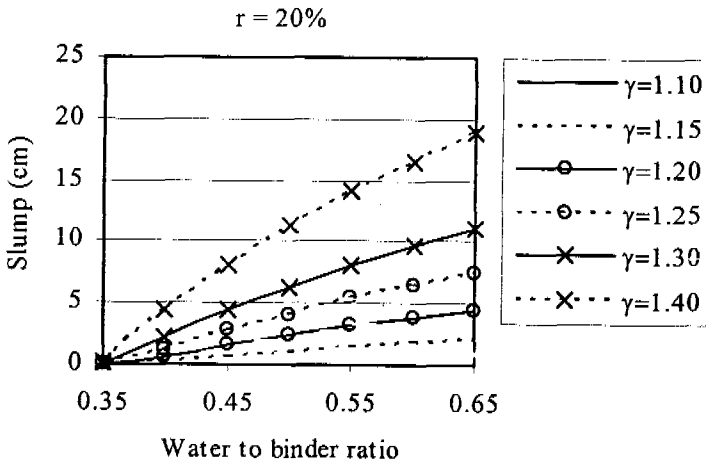
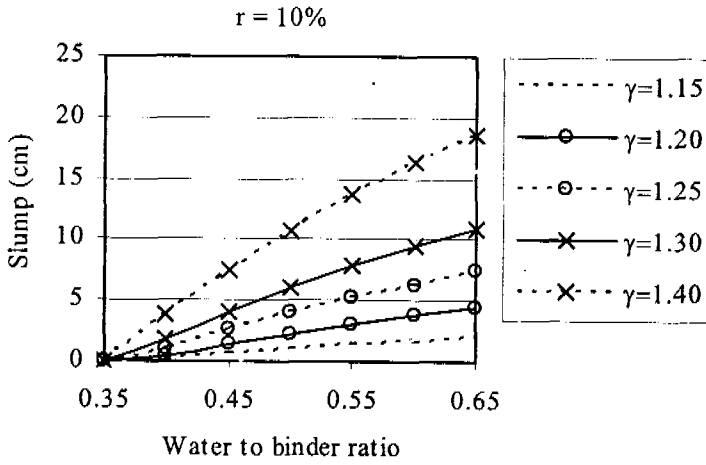
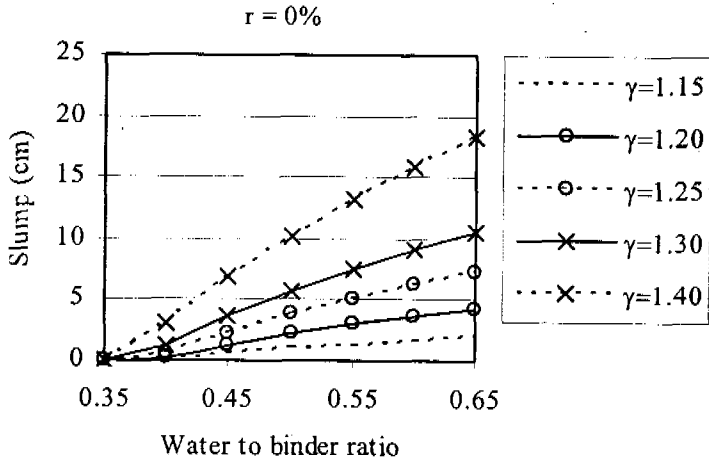


Fig. C3-2 Slump of fly ash concrete (FM = 3.00)

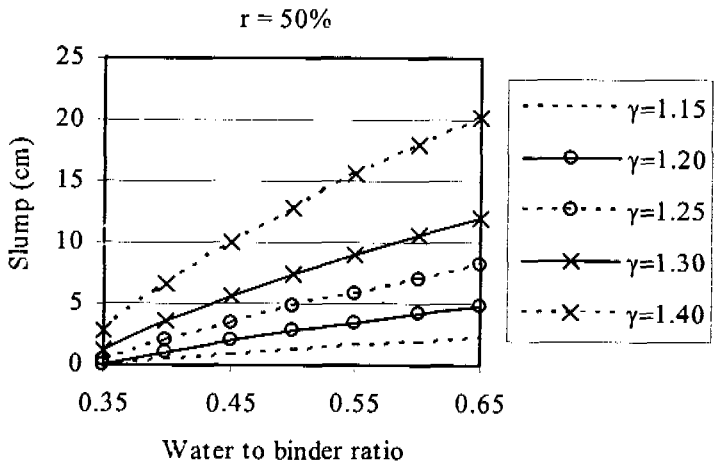
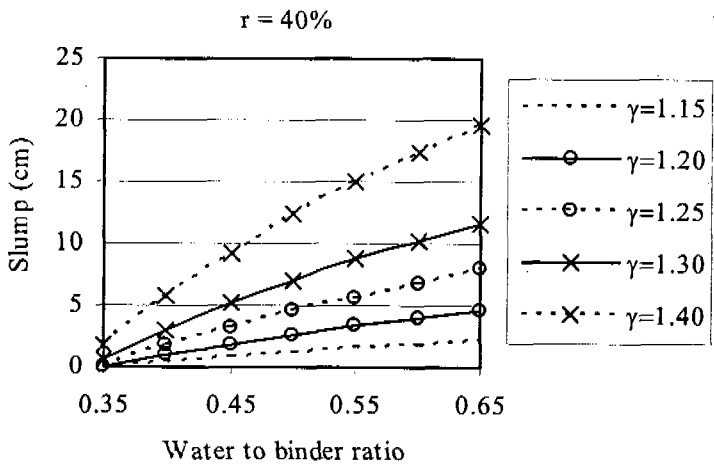
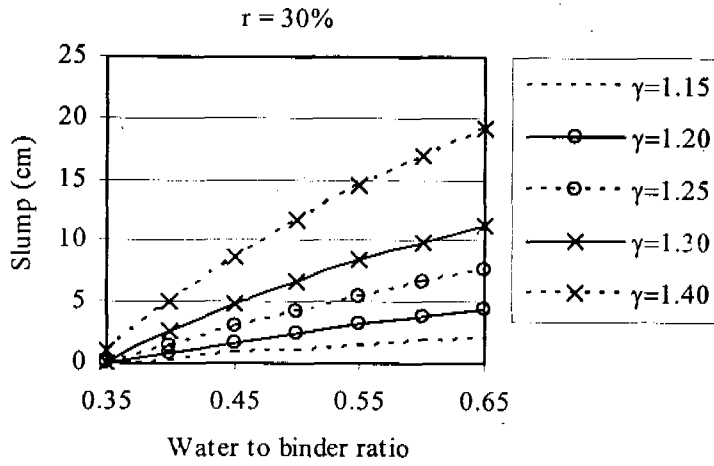


Fig. C3-2 (Continue) Slump of fly ash concrete (FM = 3.00)

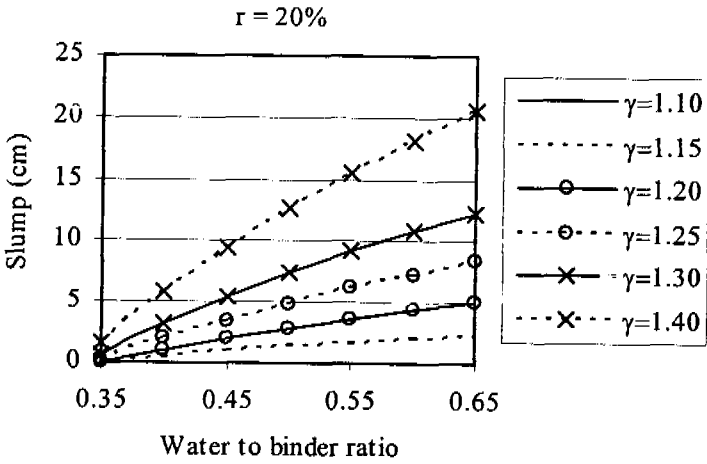
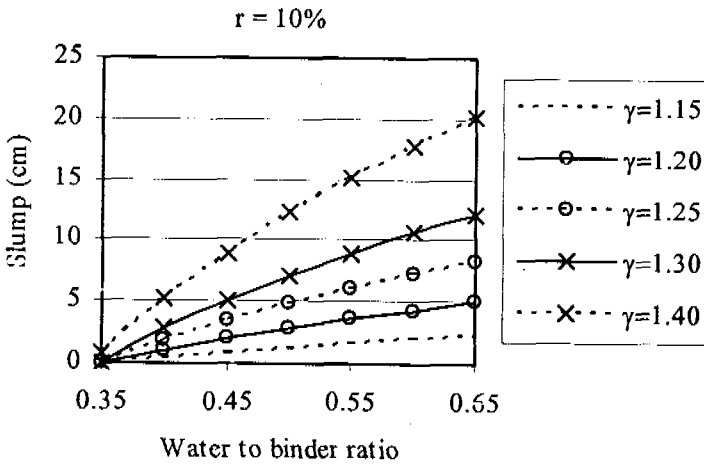
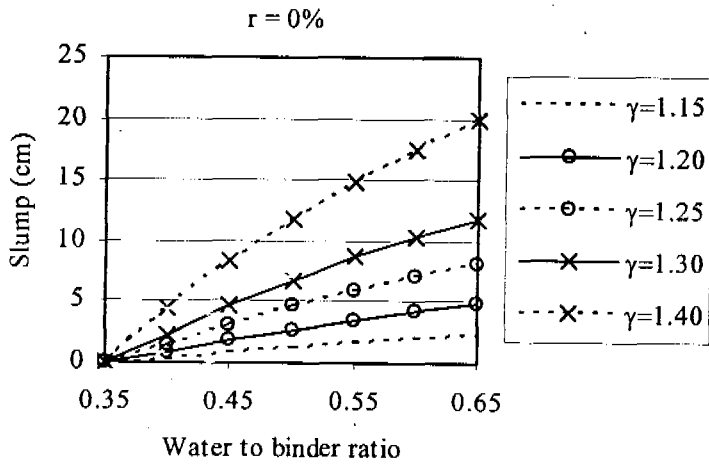


Fig. C3-3 Slump of fly ash concrete (FM = 3.25)

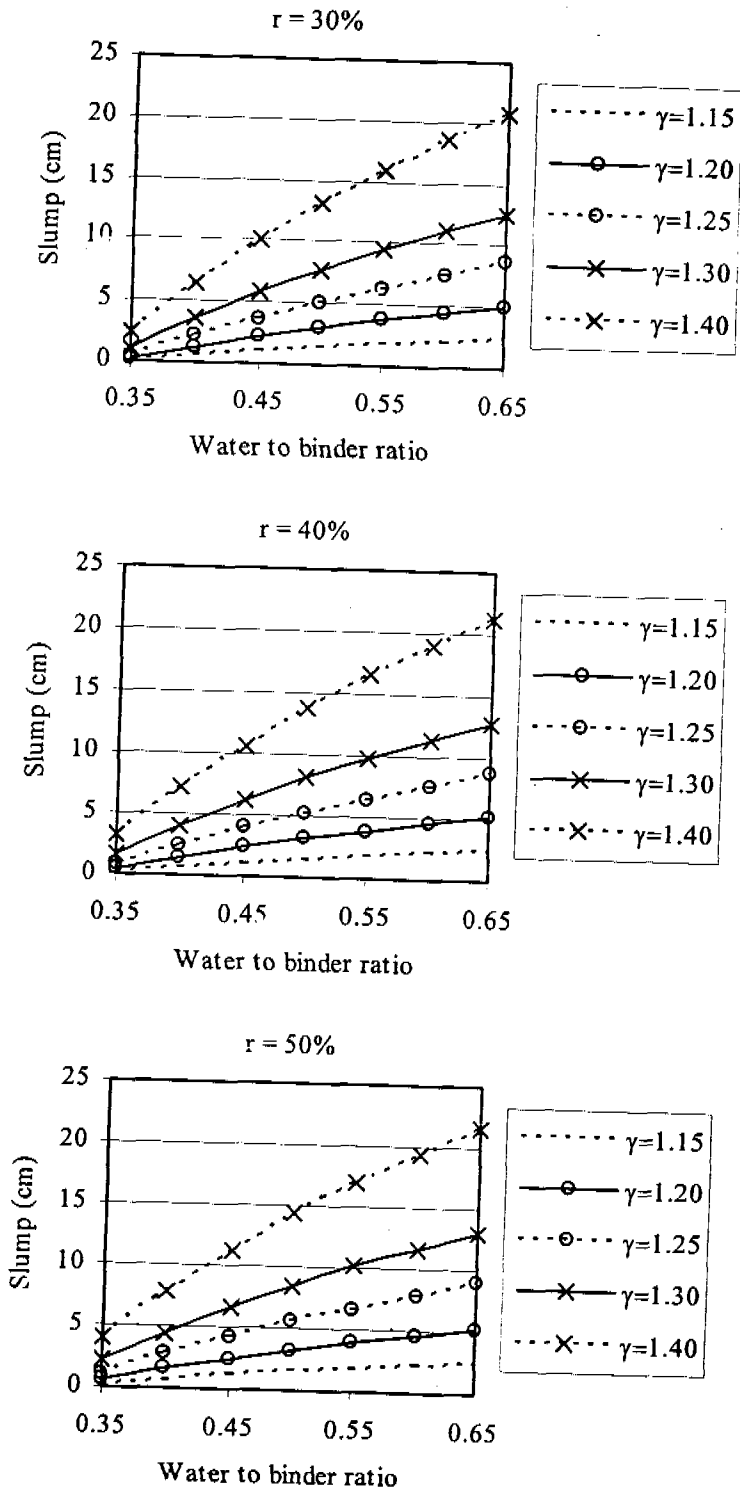


Fig. C3-3 (Continue) Slump of fly ash concrete (FM = 3.25)