Summary of reinforced concrete^{A1} durability requirements for exposure class XS3® for an intended working life of not less than 50 years

Code of Practice, British Standard	Concrete made with: Portland cement, CEM I				Concrete made with: Blast-furnace cement, CEM III/A ^{c)}			
	mcc ^{D)} , kg/m ³	mwc ^{E)}	f _{ck,cube} MPa	C _{nom} ^{F)} MM	mcc ^{D)} , kg/m ³	mwc ^{E)}	f _{ck,cube} MPa	C _{nom} F) MM
CP 110-1: 1972	<mark>330</mark>	0.45	50	50	<mark>330</mark>	0.45	50	50
BS 6349-1: 1984	400	0.42	40	50	<mark>400</mark>	0.42	40	50
BS 8110-1: 1985	400	0.45	50	50	<mark>400</mark>	0.45	50	50
BS 8110-1: 1997	400	0.45	50	50	<mark>400</mark>	0.45	50	50
BS 6349-1: 2000	400	0.40	50	60	<mark>360</mark>	0.50	37	50
BS 8500-1: 2002	<mark>360</mark>	0.40	50	60	<mark>360</mark>	0.40	45	50
BS 8500-1:2006	<mark>380</mark>	0.40	50	60	<mark>380</mark>	0.40	45	50
BS 6349-1-4: 2013	<mark>360</mark>	0.35	50	90	<mark>380</mark>	0.35	50	60
BS 8500-1: 2015	<mark>380</mark>	0.35	55	90	<mark>380</mark>	0.35	50	60

A) Maximum aggregate size 20mm

B) Assuming XS3 is equivalent to exposure classes previously described as severe, very severe or extreme

C) Assuming a nominal GGBS content of 40%, representative of UK Portland blast-furnace cements 1925–1990

D) Minimum cement or combination content

E) Maximum free water:cement ratio

F) Nominal cover assuming required minimum cover plus an allowance of 10mm.