

(JA/101 )

## Information for Harrow

## Tina Donoghue

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**From:** Allen, John: CP-Plan: RBKC  
**Sent:** 18 June 2017 11:20  
**To:** martin.tucker@met.pnn.police.uk  
**Subject:** FW: CP100  
**Attachments:** CP110 FR.pdf

For hbc

John Allen  
Building Control Manager  
The Royal Borough of Kensington and Chelsea  
The Town Hall, Hornton Street, London W8 7NX  
Tel: [REDACTED] | Mob: [REDACTED]  
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**From:** Andy Fewings [mailto:Andy.Fewings@hjplondon.co.uk]  
**Sent:** 14 June 2017 10:25  
**To:** Allen, John: CP-Plan: RBKC <John.Allen@rbkc.gov.uk>  
**Subject:** CP100

John,

Extract from a well-known design guide for CP110, the 1970s code for RC. Table numbers may not be the same as the code but the content is an exact replica.

If we can be of any further assistance please ask, happy to attend also if required to add further opinion for you.

Kind Regards,

Andy

Andy Fewings  
Managing Director

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Table 54. Fire resistance of reinforced concrete beams

Description	Minimum dimension of concrete to give a fire resistance in hours					
	4	3	2	1½	1	½
	mm	mm	mm	mm	mm	mm
(1) Siliceous aggregate concrete:						
a. average concrete cover to main reinforcement	65*	55*	45*	35	25	15
b. beam width	280	240	180	140	110	80
(2) As (1) with cement or gypsum plaster 15 mm thick on light mesh reinforcement:						
a. average concrete cover to main reinforcement	50*	40	30	20	15	15
b. beam width	250	210	170	110	85	70
(3) As (1) with vermiculite/gypsum plaster† or sprayed asbestos‡ 15 mm thick:						
a. average concrete cover to main reinforcement	25	15	15	15	15	15
b. beam width	170	145	125	85	60	60
(4) Lightweight aggregate concrete:						
a. average concrete cover to main reinforcement	50	45	35	30	20	15
b. beam width	250	200	160	130	100	80

\* Supplementary reinforcement, to hold the concrete cover in position, may be necessary. Reference should be made to 10.2.

† Vermiculite/gypsum plaster should have a mix ratio in the range of 1½-2 : 1 by volume.

‡ Sprayed asbestos should conform to BS 3590.

Table 59. Fire resistance of concrete columns (all faces exposed)

Type of construction	Minimum dimension of concrete to give a fire resistance in hours					
	4	3	2	1½	1	½
	mm	mm	mm	mm	mm	mm
(1) Siliceous aggregate concrete:						
a. without additional protection	450	400	300	250	200	150
b. with cement or gypsum plaster 15 mm thick on light mesh reinforcement	300	275	225	150	150	150
c. with vermiculite/gypsum plaster* or sprayed asbestos‡ 15 mm thick	275	225	200	150	120	120
(2) Limestone aggregate concrete or siliceous aggregate concrete with supplementary reinforcement in concrete cover	300	275	225	200	190	150
(3) Lightweight aggregate concrete	300	275	225	200	150	150

\* Vermiculite/gypsum plaster should have a mix ratio in the range of 1½-2 : 1 by volume.

‡ Sprayed asbestos should conform to BS 3590.

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† Non-combustible screeds and floor finishes may be included in these dimensions.