

Message

From: Neil Crawford [neil@studioe.co.uk]
Sent: 11/03/2015 12:29:43
To: Hanson, Paul: PC-Plan [paul.hanson@rbkc.gov.uk]; Hoban, John: PC-Plan [john.hoban@rbkc.gov.uk]
CC: slawrence@rydon.co.uk; Simon O'Connor (SOConnor@rydon.co.uk) [soconnor@rydon.co.uk]; Kevin Lamb (KevinLamb@harleycw.co.uk) [kevinlamb@harleycw.co.uk]; daniel@harleycw.co.uk
Subject: RE: Grenfell

Hi Paul/ John

To clarify what we were trying to understand here was the requirement for fire stopping within the wall build up where the cladding cassettes are mounted over the old cladding. Are you saying these should mirror the internal compartments (ie 60min and 120min [60min horizontally at floors])?

Regards

Neil

From: Paul.Hanson@rbkc.gov.uk [mailto:Paul.Hanson@rbkc.gov.uk]
Sent: 10 March 2015 11:49
To: Neil Crawford
Cc: John.Hoban@rbkc.gov.uk
Subject: RE: Grenfell

Hi Neil,

This is a B3 matter so it's really John Hoban's reference but effectively, if you mean fire resistance, the walls between apartments are compartment walls so the construction should achieve the same fire time as the elements of construction for the building – the fire time depends upon the height of the building as described in 1. A of Table A2 ADB).

Table A2 Minimum periods of fire resistance

| Purpose group of building | | Minimum periods of fire resistance (minutes) in a: | | | | |
|--|----------------|---|---------------------|--|---------------------|---------------------|
| | | Basement storey ¹⁸ including floor over | | Ground or upper storey | | |
| | | Depth (m) of a lowest basement | | Height (m) of top floor above ground, in a building or separated part of a building | | |
| | | More than 10 | Not more than 10 | Not more than 5 | Not more than 18 | Not more than 30 |
| 1. Residential: | | | | | | |
| a. Block of flats: | | | | | | |
| – not sprinklered | 90 | 60 | 30* | 60**† | 90** | Not permitted |
| – sprinklered | 90 | 60 | 30* | 60**† | 90** | 120** |
| b. Institutional | 90 | 60 | 30* | 60 | 90 | 120# |
| c. Other residential | 90 | 60 | 30* | 60 | 90 | 120# |
| 2. Office: | | | | | | |
| – not sprinklered | 90 | 60 | 30* | 60 | 90 | Not permitted |
| – sprinklered ‡ | 60 | 60 | 30* | 30* | 60 | 120# |
| 3. Shop and commercial: | | | | | | |
| – not sprinklered | 90 | 60 | 60 | 60 | 90 | Not permitted |
| – sprinklered ‡ | 60 | 60 | 30* | 60 | 60 | 120# |
| 4. Assembly and recreation: | | | | | | |
| – not sprinklered | 90 | 60 | 60 | 60 | 90 | Not permitted |
| – sprinklered ‡ | 60 | 60 | 30* | 60 | 60 | 120# |
| 5. Industrial: | | | | | | |
| – not sprinklered | 120 | 90 | 60 | 90 | 120 | Not permitted |
| – sprinklered ‡ | 90 | 60 | 30* | 60 | 90 | 120# |
| 6. Storage and other non-residential: | | | | | | |
| a. any building or part not described elsewhere: | | | | | | |
| – not sprinklered | 120 | 90 | 60 | 60 | 120 | Not permitted |
| – sprinklered ‡ | 90 | 60 | 30* | 60 | 90 | 120# |
| b. car park for light vehicles: | | | | | | |
| i. open sided car park ¹⁹ | Not applicable | Not applicable | 15*+ | 15*+ ²⁰ | 15*+ ²⁰ | 60 |
| ii. any other car park | 90 | 60 | 30* | 60 | 90 | 120# |

Single storey buildings are subject to the periods under the heading "not more than 5". If they have basements, the basement storeys are subject to the period appropriate to their depth.

§ The floor over a basement (or if there is more than 1 basement, the floor over the topmost basement) should meet the provisions for the ground and upper storeys if that period is higher.

* Increased to a minimum of 60 minutes for compartment walls separating buildings.

** Reduced to 30 minutes for any floor within a flat with more than one storey, but not if the floor contributes to the support of the building.

Reduced to 90 minutes for elements not forming part of the structural frame.

† Increased to 30 minutes for elements protecting the means of escape.

‡ Refer to paragraph 7.9 regarding the acceptability of 30 minutes in flat conversions.

Notes:

1. Refer to Table A1 for the specific provisions of test.
2. "Sprinklered" means that the building is fitted throughout with an automatic sprinkler system in accordance with paragraph 6.16.
3. The car park should comply with the relevant provisions in the guidance on requirement B3, Section 11.
4. For the purposes of meeting the Building Regulations, the following types of steel elements are deemed to have satisfied the minimum period of fire resistance of 15 minutes when tested to the European test method:
 - i) Beams supporting concrete floors maximum Hp/A=230m-1 operating under full design load
 - ii) Free standing columns, maximum Hp/A=180m-1 operating under full design load.
 - iii) Wind bracing and struts, maximum Hp/A=210m-1 operating under full design load.
 Guidance is also available in BS 5950 Structural use of steelwork in building. Part 8 Code of practice for fire resistant design.

Regards.

Paul Hanson
Senior Building Control Surveyor (Fire Regulations)
Royal Borough of Kensington and Chelsea

T.
M.
F.

W. www.rbkc.gov.uk/buildingcontrol

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From: Neil Crawford [mailto:Neil@studioe.co.uk]

Sent: 06 March 2015 15:50

To: Hanson, Paul: PC-Plan

Cc: Hoban, John: PC-Plan; slawrence@rydon.co.uk; Kevin Lamb (KevinLamb@harleycw.co.uk); Simon O'Connor (SOConnor@rydon.co.uk); Jason North (jnorth@rydon.co.uk)

Subject: FW: Grenfell

Hi Paul

Following our conversation this afternoon, this reminded me of another issue. Where we are over cladding what fire rating do we need to allow for within the wall build up between apartments (see below and attached)?

Regards
Neil

From: Kevin Lamb [<mailto:KevinLamb@harleycw.co.uk>]

Sent: 03 March 2015 12:58

To: slawrence@rydon.co.uk

Cc: Neil Crawford; Bruce Sounes; Daniel Anketell-Jones; Mark Stapley; Rob Maxwell; Ben Bailey

Subject: Grenfell

Simon,

Please find attached drawings now showing the fire breaks, both horizontal and vertical.

We assume a requirement of 90min integrity & 30min insulation is sufficient, if not please advise.

The vertical breaks are not on all columns, just party walls.

Regards

Kevin Lamb
Project Designer



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