

Comments:

Please see below requirements for this proposal. Failure to meet these requirements may result in an objection and an unsatisfactory proposal.

**Approved Document B, Volume 2, Buildings other than Dwellings, 2019 edition
incorporating 2020 amendments – for use in England**

Requirement B5: Access and facilities for the fire service

These sections deal with the following requirement from Part B of Schedule 1 to the Building Regulations 2010.

Requirement A building shall be designed and constructed so as to provide reasonable facilities to assist fire fighters in the protection of life.
Access and facilities for the fire service

(2) Reasonable provision shall be made within the site of the building to enable fire appliances to gain access to the building.

Intention

Provisions covering access and facilities for the fire service are to safeguard the health and safety of people in and around the building. Their extent depends on the size and use of the building. Most firefighting is carried out within the building. In the Secretary of State's view, requirement B5 is met by achieving all of the following.

- a. External access enabling fire appliances to be used near the building.
- b. Access into and within the building for firefighting personnel to both:
 - i. search for and rescue people
 - ii. fight fire.
- c. Provision for internal fire facilities for firefighters to complete their tasks.
- d. Ventilation of heat and smoke from a fire in a basement.

If an alternative approach is taken to providing the means of escape, outside the scope of this approved document, additional provisions for firefighting access may be required. Where deviating from the general guidance, it is advisable to seek advice from the fire and rescue service as early as possible (even if there is no statutory duty to consult)

Section 15: Vehicle access

Design of access routes and hard-standings

15.7 Access routes and hard-standings should comply with the guidance in Table 15.2. Requirements can only apply to the site of the works. It may not be reasonable to upgrade the route across a site to a small building. The building control body, in consultation with the fire and rescue service, should consider options from doing no work to upgrading certain features, such as sharp bends.

15.8 Where access to an elevation is provided in accordance with Table 15.1, the following requirements should be met, depending on the building height. a. Buildings up to 11m, excluding small buildings (paragraph 15.1): pump appliance access should be provided adjacent to the building for the specified percentage of the total perimeter. b. Buildings over 11m: access routes should comply with the guidance in Diagram 15.2.

15.9 Where access is provided for high reach appliances in accordance with Table 15.1, overhead obstructions (such as cables and branches) should be avoided in the zone shown in Diagram 15.2.

15.10 Dead-end access routes longer than 20m require turning facilities, as in Diagram 15.3. Turning facilities should comply with the guidance in Table 15.2.

Section 16: Fire mains and hydrants

Provision of fire mains

16.2 Buildings with firefighting shafts should have fire mains in both of the following.

- The firefighting shafts.
- Where necessary, in protected escape stairs. The criteria for providing firefighting shafts and fire mains are given in Section 17.

16.3 Buildings without firefighting shafts should be provided with fire mains where fire service vehicle access is not provided in accordance with Table 15.1. In these cases, outlets from fire mains should be located as described in paragraph 16.4, with a maximum hose distance of 45m from the fire main outlet to the furthest point, measured on a route suitable for laying a hose. Stairs do not need to be designed as firefighting shafts.

Provision of private hydrants

16.8 A building requires additional fire hydrants if both of the following apply.

- a. It has a compartment with an area more than 280m².
- b. It is being erected more than 100m from an existing fire hydrant.

16.9 If additional hydrants are required, these should be provided in accordance with the following.

- a. For buildings provided with fire mains – within 90m of dry fire main inlets.
- b. For buildings not provided with fire mains – hydrants should be both of the following.
 - i. Within 90m of an entrance to the building.
 - ii. A maximum of 90m apart.

16.10 Each fire hydrant should be clearly indicated by a plate, fixed nearby in a conspicuous position, in accordance with BS 3251. 16.11 Guidance on aspects of provision and siting of private fire hydrants is given in BS 9990.

16.11 Guidance on aspects of provision and siting of private fire hydrants is given in BS 9990.

Alternative supply of water

16.12 An alternative source of water supply should be provided where any of the following apply.

- a. No piped water supply is available.
- b. Pressure and flow in the water main are insufficient.
- c. An alternative source of supply is proposed.

16.13 The alternative source of water supply should be one of the following, subject to consultation with the local fire and rescue service.

- a. A charged static water tank with a minimum capacity of 45,000 litres.
- b. A spring, river, canal or pond that is capable of fulfilling both of the following conditions.
 - i. Providing or storing a minimum of 45,000 litres of water at all times.
 - ii. Providing access, space and a hardstanding for a pumping appliance.
- c. Any other water supply that the local fire and rescue service considers appropriate.

Water Supplies

Water supplies for firefighting should be in accordance with ADB Vol 2, Sec 16 and “National Guidance Document on the Provision for Fire Fighting” published by Local Government Association and WaterUK:

<https://www.water.org.uk/wp-content/uploads/2018/11/national-guidance-document-on-water-for-ffg-final.pdf>

For further information please contact the NFRS Water Office at the address given above or by email on FireWaterOfficer@norfolk.gov.uk

The approval of Building Control will be required to Part B of the Building Regulations 2010

Early liaison should be held with this Authority in relation to fixed firefighting facilities, early fire suppression and access (ADB Vol 2, Section 8)

The external access provisions for a building should be planned to complement the internal access requirements for a fire attack plan. (CIBSE Guide E, Fire Safety Engineering 2010, p. 13-14)