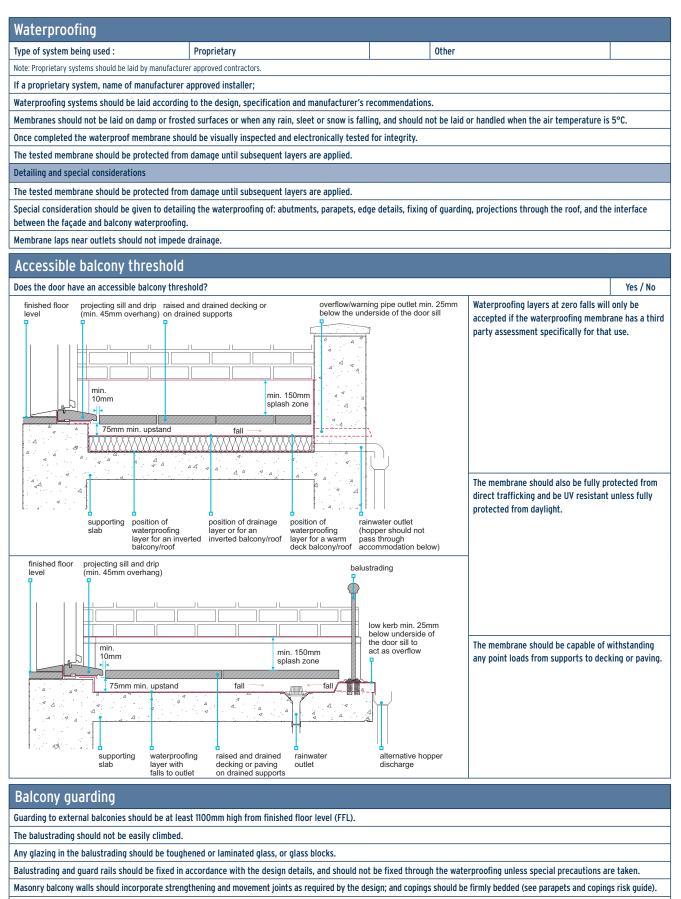
NHBC Risk Guide

Balconies (Revised May 2020)

(Refer to BS EN 12056-3, AD K, SE 46, SE 48, TE 14, Standards Ch 7.1)

Site ref: Inspector: Inspector:							
Date: Signature: Signature:							
Provision of information							
It is essential that the following information is available on site:							
Details showing the extent and direction of falls and position of outlets.							
Sections through the construction indicating how the falls are formed, and means of ventilation, if required.							
Details showing the size, specification and position of all the roof components, including the vapour control layer, insulation and waterproofing layer. Information of all treatment and protection of materials to achieve the necessary durability.							
Details of construction at critical junctions (e.g. abutments, parapets, edge details).							
Details of balustrading and method of fixing.							
Details of fixing methods and fixings for insulation and surfacing.							
If information is unavailable request its provision.							
Please specify the type(s) balcony required on site including plot numbers							
Туре		Plots				Plots	
Timber deck	Yes / No			Profiled metal deck	Yes / No		
Concrete deck	Yes / No			Other (please specify)	Yes / No		
Balcony Structure							
Balconies should be designed by a structural engineer and have a service life of at least 60 years.							
Timber in balconies should be limited to elements which are supported by materials other than timber.							
Timber should not be used for:							
 gallows brackets, posts or columns supporting a balcony guardrails or their support infill joists. 							
In-situ reinforced concrete decks should be formed using a mix which has low shrinkage characteristics, have accurately constructed and suitably supported formwork; and, be protected until adequately cured and dried.							
Precast concrete decks should be installed on an even and true supporting structure, have a minimum 90mm bearing (unless design states otherwise), have allowance for continuity or anti-crack reinforcement, and; have allowance for movement at approximately every 15m and at abutments.							
Profile metal decks should be constructed in accordance with manufacturer's recommendations to achieve required strength and durability.							
Balcony drainage							
Is drainage Yes / No							
Note: Drainage to the balconies where areas are 6m ² or over. Consideration should also be given to providing drainage to areas that are less than 6m ² , when considering factors such as exposure, where the water will end up, and potential adverse effects on the building or surrounding area.							
Flat roofs and balconies should have a finished fall of not less than 1:80, except for flat roofs with metal sheet r coverings and green roofs which should have a finished fall of not less than 1:60 (fall away from the door).							
outlet			The size and number of outlets should be designed to meet the expected rainfall intensity in accordance with BS EN 12056-3.				
fall	* 0		For flat roofs bounded by parapets at least two outlets (or one outlet plus an overflow) should be provided. Outlets should have a recessed mouth to allow the free flow of water.				
min.		⊵ ∎ overflow	Where a flat roof or balcony has an upstand on all sides, an overflow outlet should be provided through parapet walls or				
150mm			perimeter upstands to prevent a build-up of water in the event of other outlets becoming blocked.				
			The capacity of the overflow should not be less than the (combined) size of the outlet(s). If decking or paving to a balcony is to be installed above the waterproofing (but less than 150mm below the sill) it should				
	less than 1:40		be a type and design that prevents standing water build-up.				
(for de fall away from	esign purposes door	5)	The design should incorporate ra	inwater outlets that are ac	cessible for m	naintenance.	
Is water discharging from multiple balconies?							Yes / No
Note: The cumulative effects of water discharging from multiple balconies in vertical alignment should be accounted for to ensure satisfactory in-service performance and avoid issues such as the premature staining of the facade.							



Timber should not be used for guardrails or supports.

Guarding to external balconies should be at least 1100m high from the finished floor level.

The balcony guarding should provide containment from a person falling against it by resisiting horizontal forces

Other considerations

Stacked balconies, ventilation to timber joisted balconies, weather protection and drainage to wintergardens.



Raising Standards. Protecting Homeowners

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