BISON PRECAST
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TECHNICAL GUIDANCE NOTE

Jetfloor for intermediate floor use - 20 November 2017

The Jetfloor system is BBA certified for use at ground floor levels only. As with all ground floor systems that use polystyrene infill blocks there is an increased fire risk presented by the fact that polystyrene is a combustible material which does not offer any fire resistance. As such these types of systems are not intended for use within intermediate floors and should be used at ground floors only. Additional advice is contained within Table K1 of BS EN 15037-1 which states they should be used as floors over crawl spaces only.

Table K.1 - Resistance grades for different composite floor types fir dwellings with current beams (without gypsum plaster on lower face)

Floor Types (see Annex B)	Fire resistance grade (in minutes)
Floor system with cast in-situ structural topping:	
• with polystyrene blocks*	30
• with hollow concrete or clay blocks	30
• with solid concrete or clay blocks	60
Floor system with composite topping	30
Floor system with partial topping (e.g. with floating screed)	30
Floor system with self-bearing beams	
• with polystyrene blocks	15
• with semi-resisting blocks	30
*In the light of present knowledge on behaviour under fire conditions, these floor systems should be used exclusively as floors over crawl spaces.	

Whilst a fire proof ceiling can be installed via the use of proprietary clips, its use will be subject to local authority approval. The outcome of which could vary between different authorities. It should be noted that the proprietary ceiling clips are those that are used for beam & block systems and as such will not be suitable for all systems.

In addition there is a greater risk of falling from height when compared to using aggregate infill blocks due to the lower strength polystyrene material and wider beam spacing from the large format blocks. However, a suitable fall arrest system can be installed.

Another factor to take in to account is that the Jetfloor system requires a structural concrete topping to be cast prior to using the floor. This is would be more difficult to install when not at the ground level.

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Bison Precast - Tetron Point - William Nadin Way - Swadlincote - Derbyshire - DE11 0BB
01283 817 500 concrete@bison.co.uk bison.co.uk