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Issue Date: May 2016

## **LOADING OUT OF MATERIAL ONTO MASONITE I-JOIST FLOORS**

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### **INTRODUCTION**

This Technical Bulletin gives details on the quantities of construction materials that may be placed on Masonite I-Joist floors at various stages of construction. Firstly, details of the quantity of floor board materials that may be placed on a fully braced but un-decked floor are given.

Secondly, details of the quantity of either masonry or floor/ceiling board materials that may be placed on a fully decked floor are given.

No loads should be placed over any area where a temporary deck is installed (such as stairwells).

Where joists are trimmed onto a beam, no load should be applied to the trimmed end of the joists unless the ends of the carrying member are propped. This prevents possible overloading of the hangers.

### **LOADING-OUT ONTO A BRACED BUT UN-DECKED FLOOR**

The following diagram (Figure 1) shows details of the floor board material that may be placed on a braced but un-decked floor. The temporary bracing that must be in place before any materials are placed on the floor is shown in red on the floor diagram. Refer to the Technical Guide for full information on the erection of Masonite I-Joist floors, the installation of temporary bracing and site safety notes. Floor board materials may be stacked up to 0.5m high, as shown, 1m from any supporting wall. Additional stacks of boards may be placed at other locations on the same floor, if the overall size of floor permits, but do not place additional stacks of boards on the same joists as the first stack.

### **LOADING-OUT ONTO A FULLY DECKED FLOOR**

Once a Masonite I-Joist floor is fully decked, masonry or board materials may be placed on the floor provided that certain conditions are met. For masonry materials, two loading conditions are given, one for Aircrete blocks (AAC) weighing up to 800kg/m<sup>3</sup>, and one for lightweight aggregate blocks (LAC) weighing up to 1500kg/m<sup>3</sup>. For board materials, two loading conditions are also given, one for floor board materials and one for ceiling board materials.

### **LOADING-OUT MASONRY MATERIAL ONTO A DECKED FLOOR**

The arrangements for placing AAC blocks and LAC blocks onto a decked floor are shown in Figures 2a, 2b, 3a and 3b respectively. Figures 2a and 2b are for use with AAC blocks, and Figures 3a and 3b are for use with LAC blocks. Figures 2a and 3a show one stack of blocks per joist and Figures 2b and 3b show two stacks of blocks per joist.

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**i** *Under no circumstances should any materials be loaded-out within the stairwell zone*

Figure 1. Loading out of board materials on a braced but undecked floor

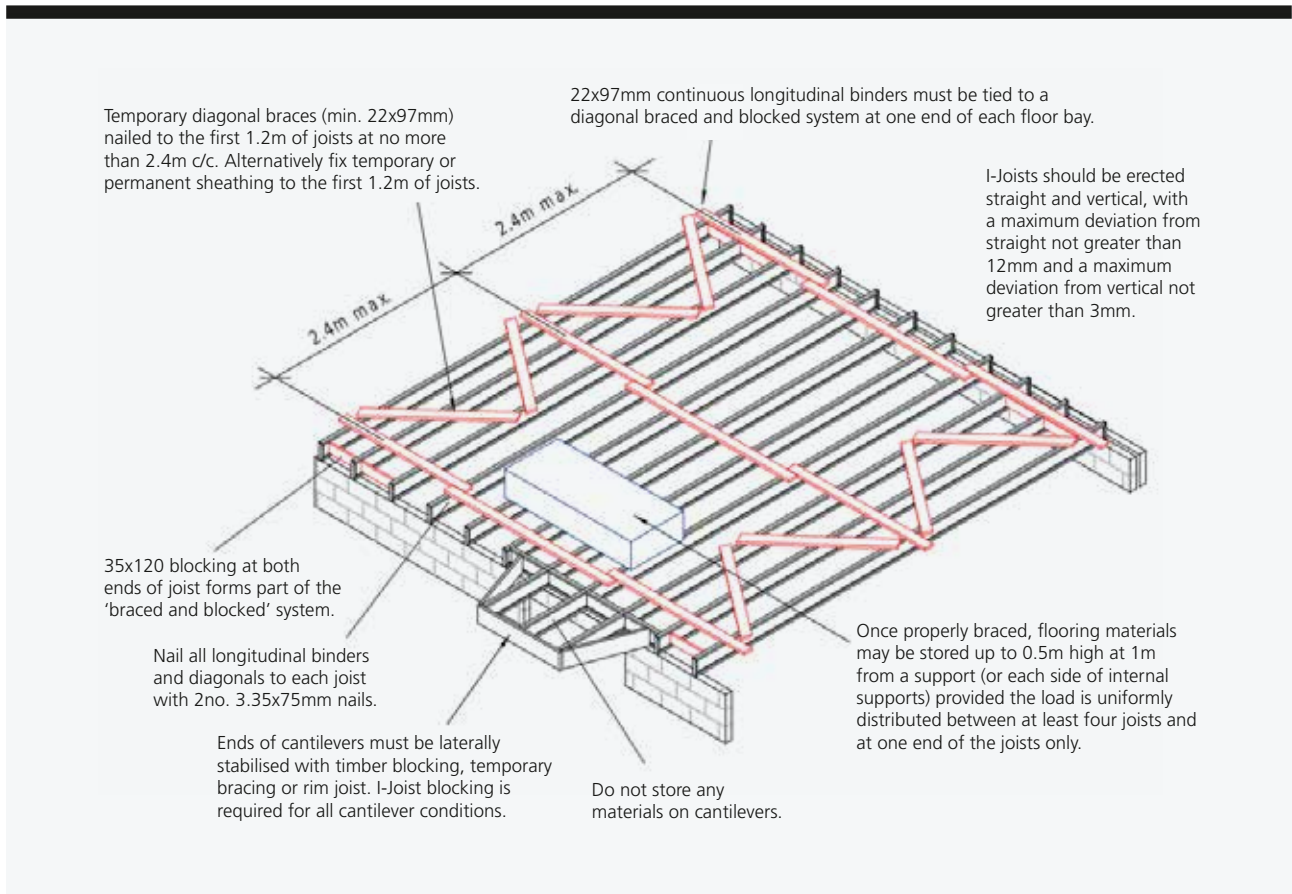


Figure 2a. Loading-out of AAC blocks up to 800kg/m<sup>3</sup> onto a decked floor. 1 stack of blocks per joist

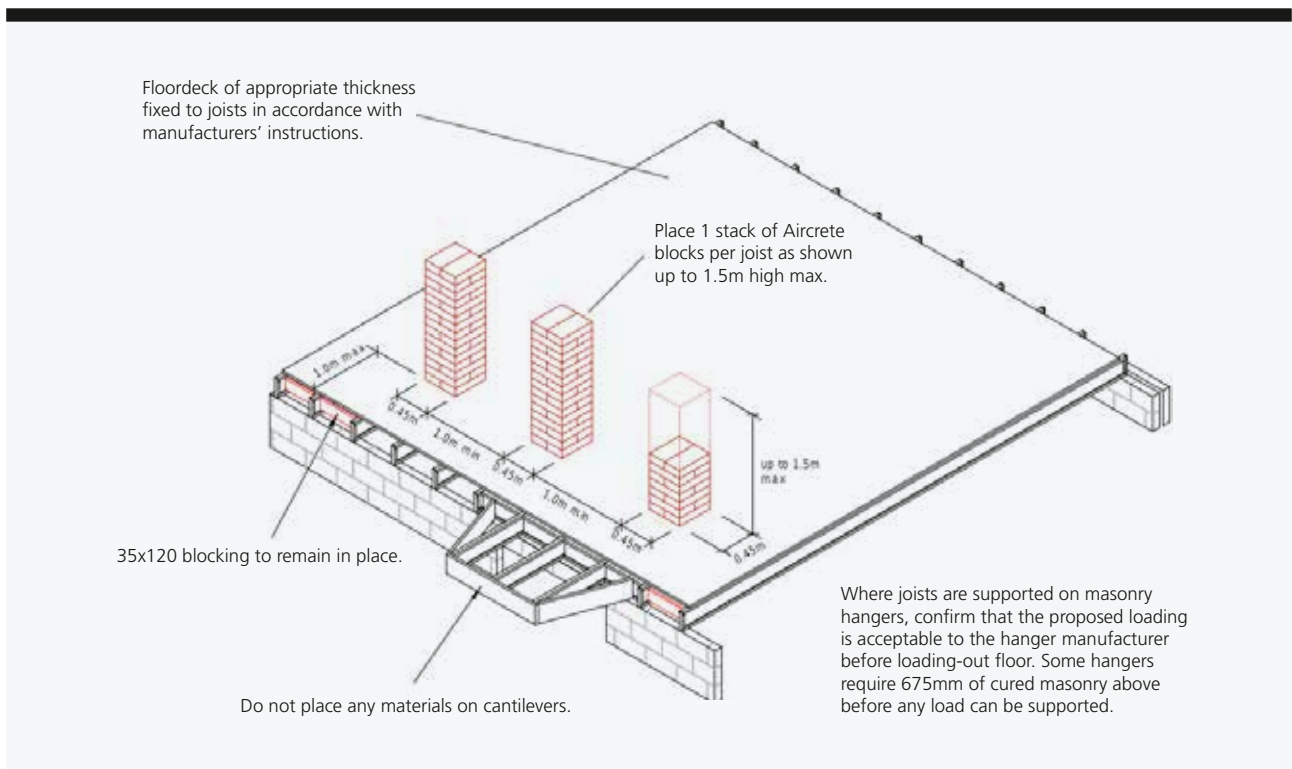


Figure 2b. Loading-out of AAC blocks up to 800kg/m<sup>3</sup> onto a decked floor.  
2 stacks of blocks per joist

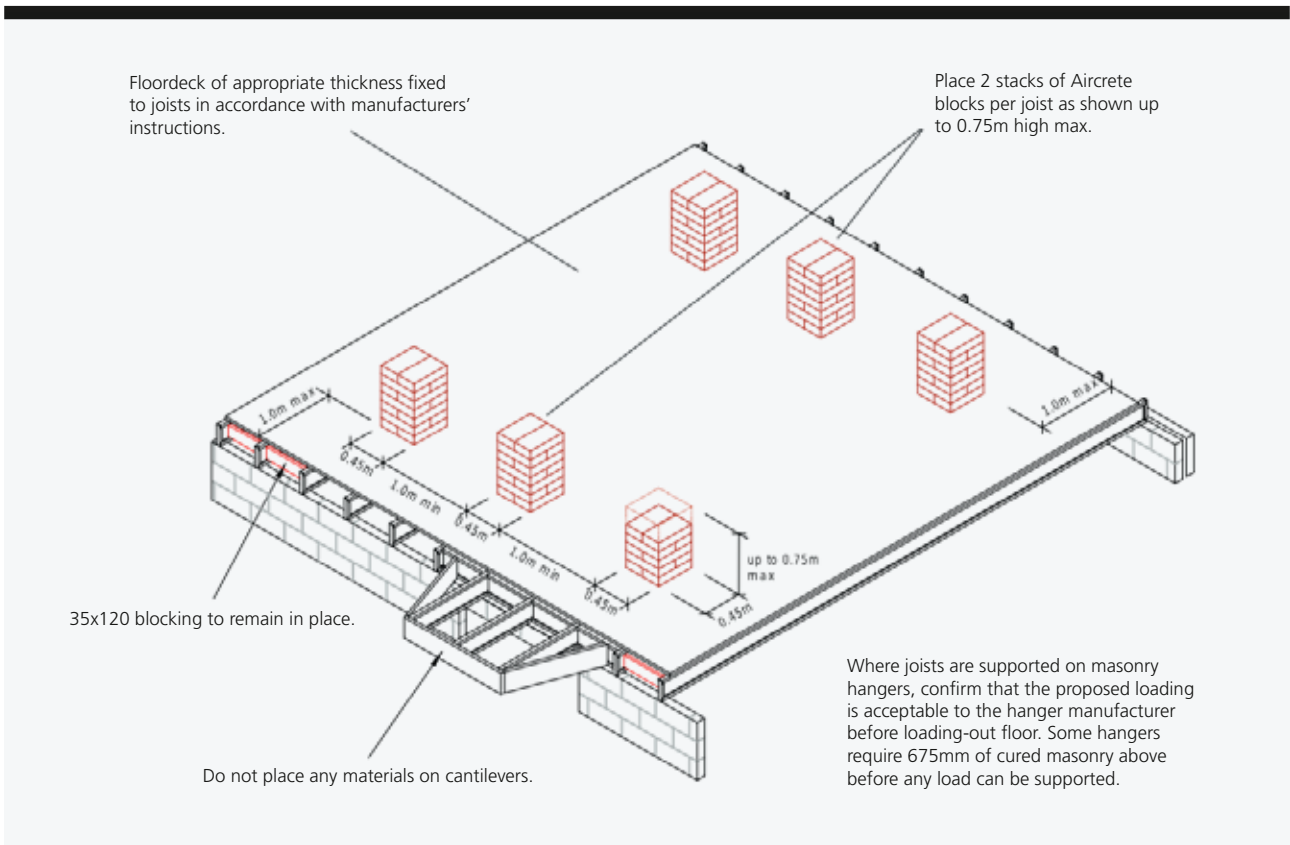


Figure 3a. Loading-out of LAC blocks up to 1500kg/m<sup>3</sup> onto a decked floor.  
1 stack of blocks per joist

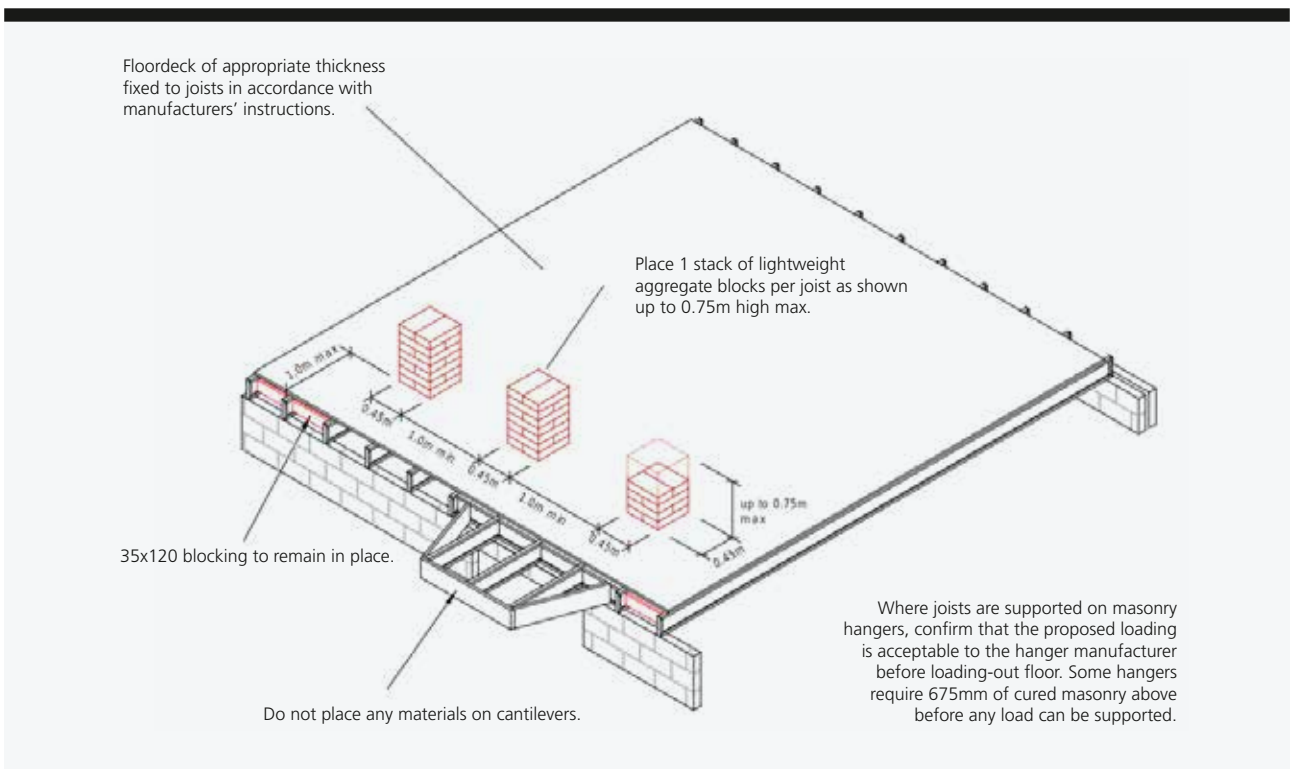


Figure 3b. Loading-out of LAC blocks up to 1500kg/m<sup>3</sup> onto a decked floor.  
2 stacks of blocks per joist

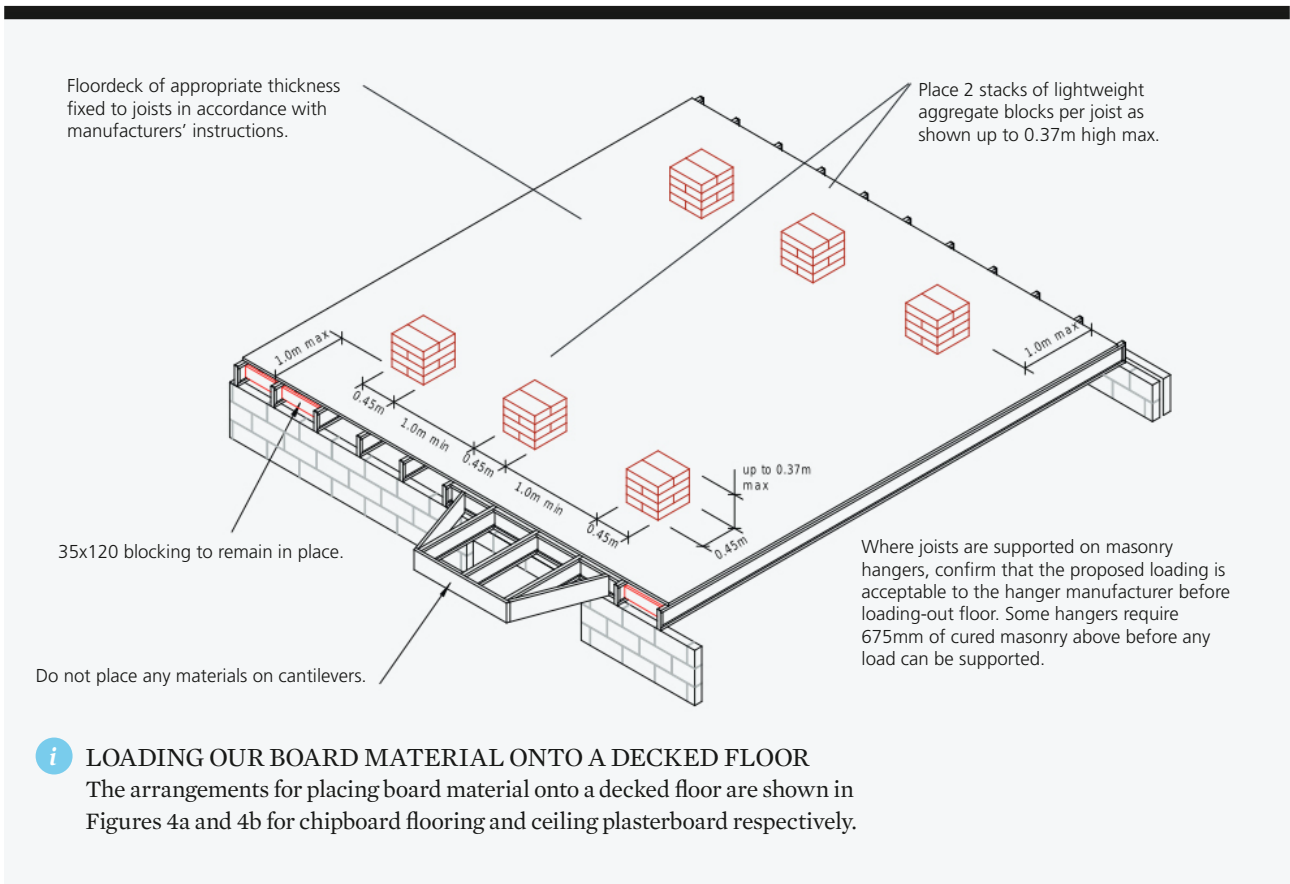


Figure 4a. Loading-out of floor materials onto a decked floor

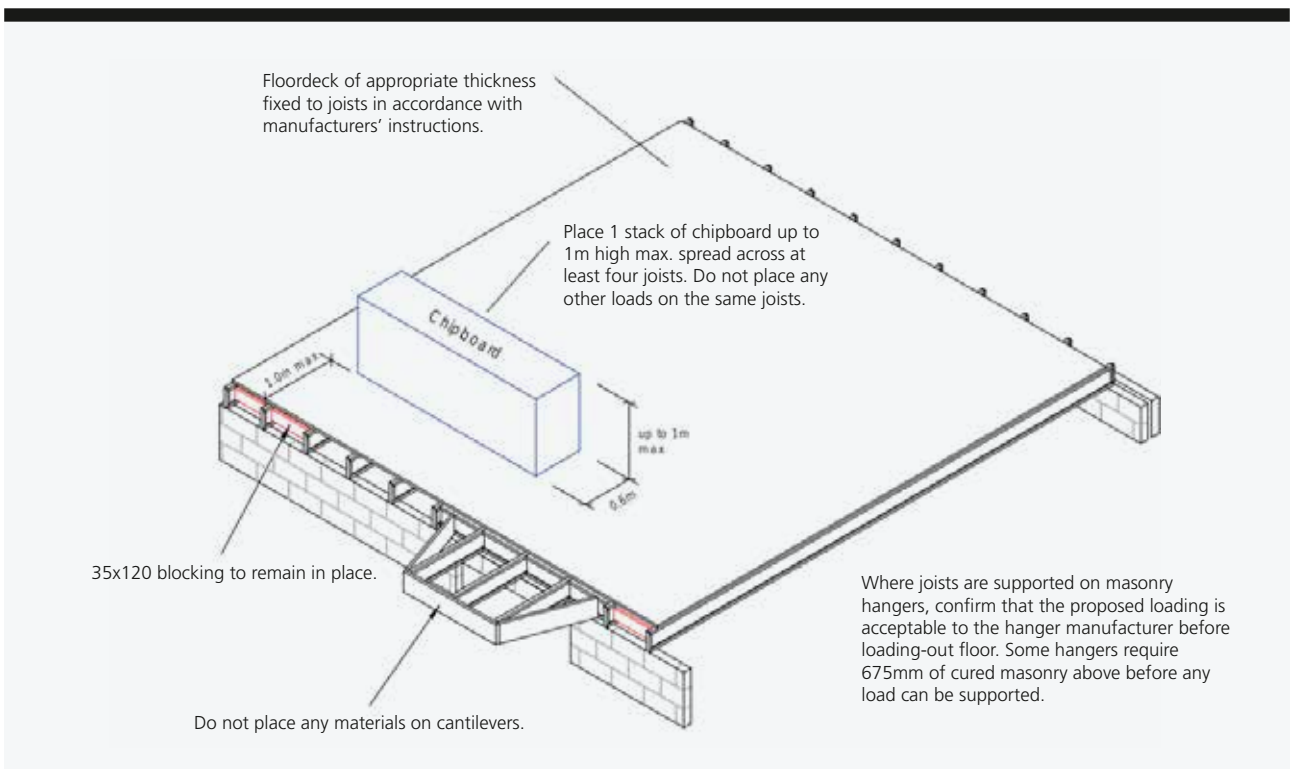
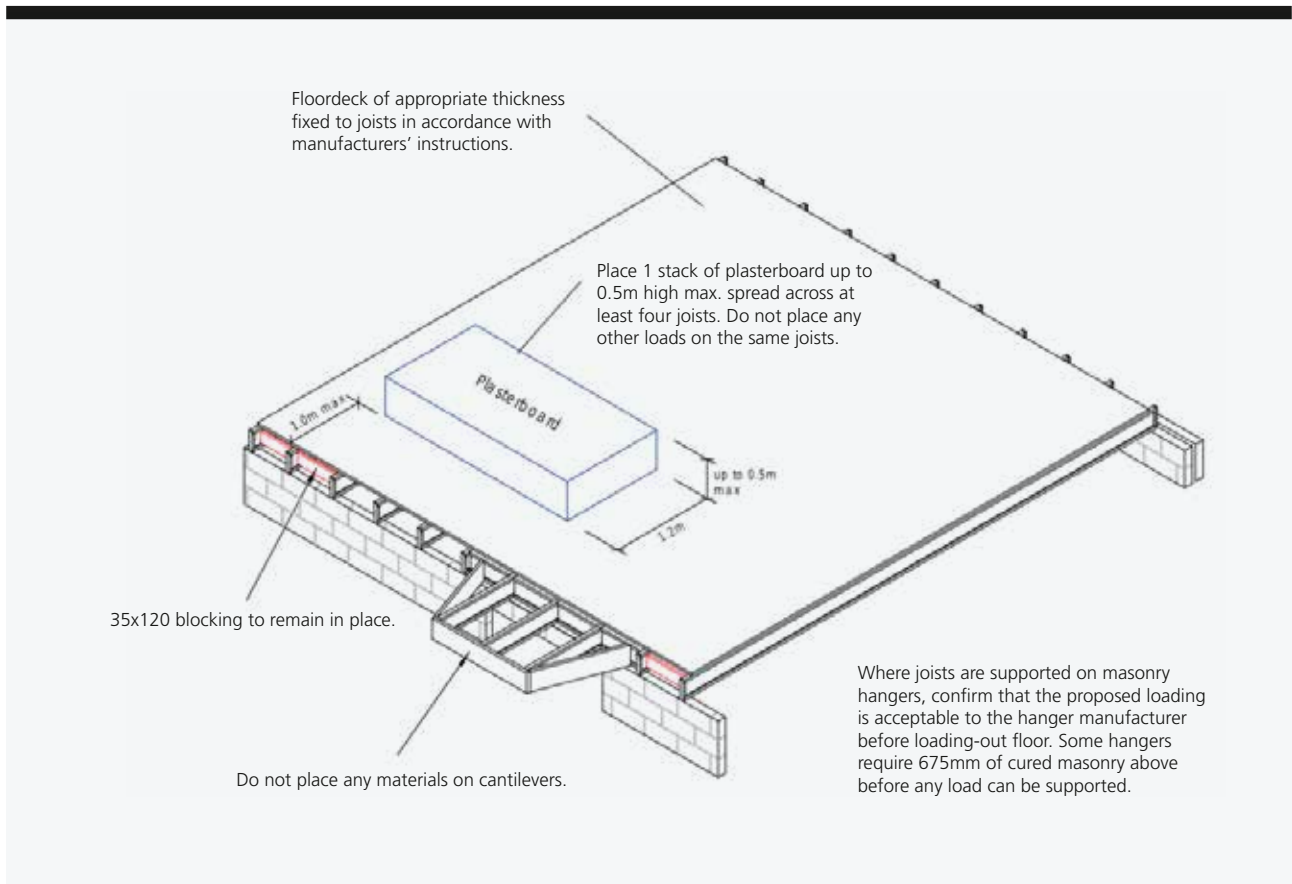


Figure 4b. Loading-out of ceiling materials onto a decked floor



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