

# Bolt fixing of multiple joists

(March 2023) (Second issue - supersedes Dec 2008)



## Question

Can coach bolts be used to fix multiple joists together and, if so, which methods of installation are acceptable?

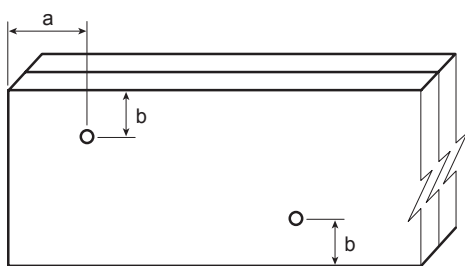
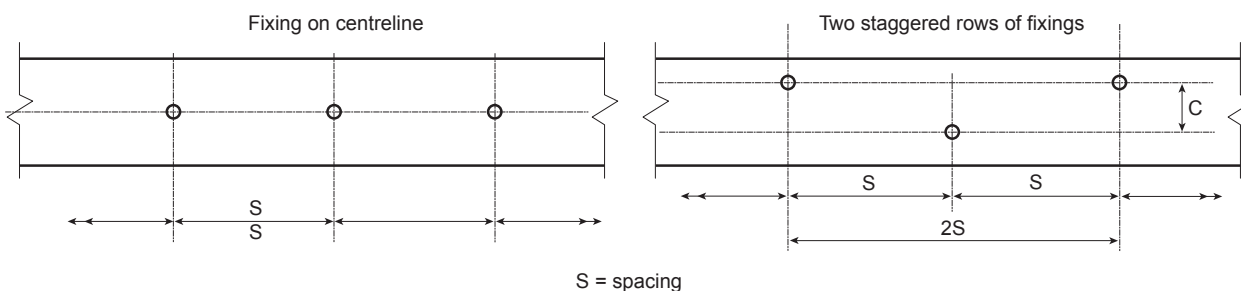
## Considerations

- NHBC Standards clause 6.1.14 refers to the use of bolts for fixing multiple joists together.

## Answer

Coach bolts can be used to fix multiple solid joists together. They should be on the centre line at approximately 1m centres. A washer should be fitted under the nut of the bolt. If the design requires a washer under the head of the bolt, the square shank on the bolt should pass through the washer. Metal toothed/ring connectors may also be required, depending on the design.

Where more than two joists are to be secured together or a heavy concentrated load is to be supported, then the fixing arrangement with staggered spacing shown in the table may be used



Fixing type	Minimum dimension (mm)		
	a	b	c
Bolt	Maximum of 7d or 80mm	4d	4d
d – diameter of bolt			