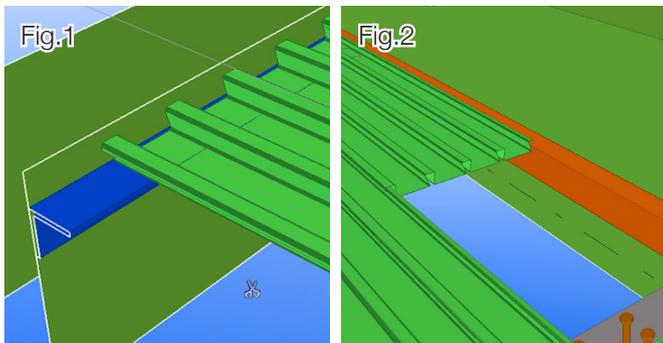


## Steel support information sheet

In accordance with BS5950 and Eurocode 4, the *ends* of all deck sheets require a minimum 50mm bearing onto a structural support (steel beam or angle). Adequate support should be designed/detailed by the steel frame designer \*this may be the structural engineer or steelwork contractor depending on the contract specifics) and manufactured/installed by the steelwork contractor.

When a model is received, where possible, SMD will endeavour to highlight missing supports or additional requirements during the design/detailing process. However, please note the design, supply and installation of these supports is the responsibility of others.

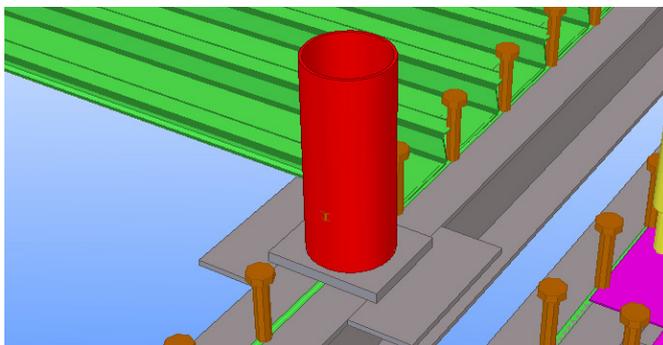
The following guidance has been prepared by SMD to aid steelwork designers during the detailing process to ensure the minimum support requirements are provided at junctions between beams, columns and walls. Whilst this guidance is not exhaustive it provides the general principles that can then be applied where obstructions such as bracing, baseplates, splice plates etc obstruct the surface of the supporting structure.



### Deck adjacent to core walls

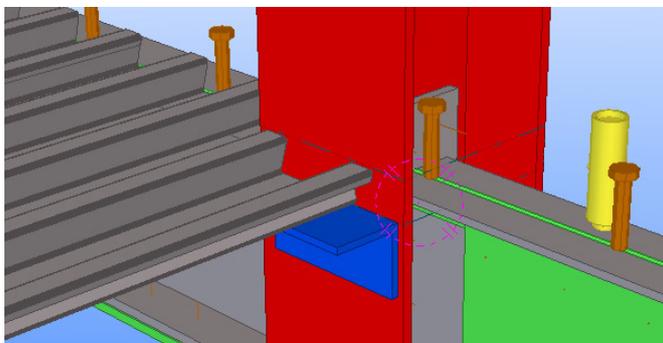
An angle support is typically required to provide the *end* bearing for metal deck where sheets run perpendicular to the core wall (Fig.1).

Where the deck runs parallel to the core wall, an angle may not be necessary - Contact SMD Technical Dept for further guidance as this depends on concentrated loads applied to the slab.



### Deck bearing at obstructed top flanges

Where a connection plate, post, bracing or similar obstructs the beam top flange, additional plates must be welded either side to extend the top flange and ensure a minimum of 50mm bearing for the deck *end* is provided.



### Deck support at face of columns

Column flanges that have no incoming beam require additional support to deck *ends* where columns exceed 150mm wide. In these cases a plate or angle is a common solution to provide support to the metal decking.

Where deck is running in the opposite direction to that shown, no additional support is required.

For further guidance on deck support requirements please refer to

**SCI Publication P300 (MCRMA Technical Paper No 13) - Composite Slabs and Beams using Steel Decking: Best Practice for Design and Construction, Section 4.1.4: Pages 24 and 25**

