



Position Paper on the Design Responsibility for Steel Deck Diaphragms

Introduction

This document is intended to clarify the responsibility of the steel deck manufacturer, steel deck installer and structural engineer with regards to the structural design of a steel deck diaphragm, forming part of the design of the building structure. The steel deck manufacturer is most often just a supplier to a subcontractor hired by the general contractor to install the steel deck. Erection drawings provided by the deck installer are only intended to identify the location of the various deck sheets. The structural engineer is responsible for the design of the steel deck diaphragm and communicating the necessary information to the deck installer.

Requirements

In Canada, the structural design of a steel deck diaphragm requires that the diaphragm behave elastically under seismic forces. The steel deck diaphragm is an integral part of the building design and so the requirements must be clearly indicated on the structural design documents. The requirements of CSA-S16-09 *Design of Steel Structures*, clause 4.2.2(f) states that the structural design documents shall include the requirements for roof and floor diaphragms. This information must be supplied by the structural engineer responsible for the design of the building and needs to include the specification of connector type and spacing; alternatively the performance specifications for the fastening system can be supplied and the installer will then select the fastener. Additional information supplied by the structural engineer would include the shear forces to be carried by the diaphragm, horizontal deflection criteria, special detailing along bracing lines and any other considerations relevant to the diaphragm design. The more complete the information in the structural documents, the more accurate will be the estimates and

less re-approval process that may be necessary afterward.

Connectors

The strength and stiffness of a steel deck diaphragm is achieved by the thickness and type of steel deck, but equally by the connectors at the supports (sheet-to-structure) and at the side-laps (sheet-to-sheet). The required strength and stiffness of the entire diaphragm assembly determines the choice of the appropriate connectors. There are a variety of connectors currently available with new products being introduced every year. Other factors affecting the selection of the best connector would be field conditions and erector's preferences. The deck installer may assist in picking connectors suited to the installation, but the final selection needs the approval of the structural engineer responsible for the design of the building.

Knowledge of the Building

The structural engineer responsible for the design of the building has the knowledge to determine the steel deck diaphragm requirements based on the design of the lateral load resisting system. Therefore, the engineer needs to communicate the diaphragm requirements and specifications to the deck installer if they are being asked to size the diaphragm. Some information is absolutely required from the structural engineer like the path of the shear forces, how to handle large openings, entry and exit points for the forces in the diaphragm and any unique conditions. These factors are decided during the design phase of the building and can significantly influence the type and the spacing of connectors for the installation of the steel deck.

Cssbi Diaphragm Deck Design Manual

Larry D. Luttrell



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