



CANADIAN

# Sheet Steel Building

INSTITUTE

code of standard  
practices

steel roof  
deck

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Crestview Plaza, South Service Road, Port Credit, Ontario

*This Code of Standard Practices Relates to the Design,  
Manufacture, Sale and Erection*

## 1 GENERAL

### (a) Definitions In This Code

- (i) Manufacturer means a company which fabricates steel roof deck.
- (ii) Erector means an erector or installer who may be a Manufacturer.
- (iii) Buyer means the person, firm or company contracting with the Manufacturer or the Erector for the supply and installation of steel roof deck.
- (iv) Span means the lesser of the distance centre to centre of supports, or the clear distance between support flanges plus the depth of the decking.

## 2 SCOPE

- (a) The practices and customs contained in this code are in accordance with good engineering practice and are intended to promote safety and sound construction in steel roof deck. For example the Members of the CSSBI make the recommendation that the use of 22 gauge  $1\frac{1}{2}$  inch deep steel roof deck be limited to spans of 7'6" for multi-span applications and to 6'3" for simple spans for normal roof loading conditions.
- (b) This Code is designed to assist buyers and manufacturers of steel roof deck in preparing a contract by providing contract details which can be adopted by reference when desired.
- (c) Where so Adopted this Code of Standard Practice is to govern as a standard in those cases where the provisions of building codes, architects' and engineers' plans and specifications are not specific. There shall be no conflict between this code and any legal building regulations; it shall only supplement and amplify such legislation.

## 3 DESIGN

In the absence of laws, regulations, ordinances and specifications to the contrary, design shall be in accordance with the current specifications of the Canadian Sheet Steel Building Institute.

## 4 BIDDING

### (a) Plans and Specifications for Bidding

Plans and specifications shall clearly show details, and shall be complete as to the extent of Roof Deck and accessories to be furnished by the Manufacturer or Erector.

### (b) Base Bid Shall Include the Following Items

Steel Roof Deck.

Steel Cant Strips.

Ridge and Valley flashings and the installation thereof, where required.

Cutting of necessary roof openings where detailed on the plans and while erection forces are on the job.

Reinforcing of roof openings up to 18" diameter or square.

### (c) The Following Other Accessories Shall be Included by Others

Roof Hoppers, Ventilators, Miscellaneous Holes for Fastening Devices, Hangers etc. All steel supports heavier than 14 gauge, such as Wall Bearing Plates, Wall Shelf Angles, Roof Openings over 18", where reinforcing must be tied in to structural steel.

## 5 DRAWINGS AND SPECIFICATIONS

- (a) **Plans Furnished by Buyer**—shall include complete Architectural Plans and Specifications and approved structural steel erection diagrams with roof purlin spacings correctly dimensioned.

Should the purlin spacing vary from the original Architectural and Structural drawings, this shall be the responsibility of the Buyer. The Architect's plans will be assumed to be correct. When approved structural steel erection diagrams do not agree with the Architect's plan, the former shall govern.

- (b) **Incomplete Plans and Specifications**—  
When details of design are not clearly specified, the manufacturer shall furnish all materials required in accordance with the current specifications of the Canadian Sheet Steel Building Institute.
- (c) **Erection Layouts, Furnished by Manufacturer**—shall clearly show the location of various sheet lengths and sheet quantities, gauges and protective coatings. Quantities and lengths of steel roof deck sheets shall be the responsibility of the manufacturer.
- (d) **Approval**—The erection layout shall be submitted to the Buyer for approval. The Buyer shall return one copy marked with his approval or with such corrections as he may deem necessary. The Manufacturer or Erector shall not start shop work prior to final approval of drawings unless approval is waived by the Buyer.
- (e) **Changes by Buyer After Approval**—  
When any changes are made by the Buyer after contract agreement, the cost of such changes shall be the basis of renegotiation of the contract agreement.

## 6 LIMITATIONS

It is the Erector's responsibility to erect a steel roof deck conforming to the requirements of the drawings and specifications and in accordance with good trade practice. Any damages or alterations by others to the steel roof deck will not be the responsibility of the Erector or Manufacturer.

## 7 COLLATERAL MATERIAL

Although certain collateral material such as insulation, waterproofing and sheet metal work is not supplied by the steel roof deck manufacturers, it is the desire of the Institute to have certain principles followed in the specifying and furnishing of these materials in order to provide a satisfactory insulated steel roof deck construction. This code is not intended to encroach upon the standard practices of the insulation, roofing and sheet metal industry but is to supplement and amplify such specifications.

- (a) **Insulation**—All steel roof decks shall be covered with a material of sufficient insulating value to prevent condensation under normal occupancy conditions. Insulation shall be adequately attached to the steel deck by adhesives.
- (b) **Vapour Barrier**—Where required due to occupancy moisture content, a vapour barrier is recommended.
- (c) **Roof Covering**—A suitable roof covering shall be applied over the insulation, and provisions made for thermal movement thereof, if necessary.
- (d) **Sheet Metal Work**—All flashings etc. unless otherwise specified shall be detailed and furnished by others.
- (e) **Field Painting**—Any field painting shall be the responsibility of the Buyer. It is recommended that wiped coated steel be painted after installation, without delay, with a good quality paint designed for the condition of exposure. Fully galvanized steel does not normally require field painting. Refer to Table IV Technical Bulletin No. 3 for recommended minimum zinc coating classes for typical product exposures.