



City of Orillia

Steel Dock with Structure Permit Requirements

Steel docks that support a superstructure require a design by a Professional Engineer.

Sentence 4.3.4.1 (1) of the Ontario Building Code states that structural steel be designed in accordance with CAN/CSA S16 “*Limit States Design of Steel Structures*”. This design is required to obtain a Building Permit.

Fabricators and erectors responsible for making welds for structures fabricated or erected under this Standard shall be certified by the [Canadian Welding Bureau](#) to the requirements of CSA Standard W47.1 (Division 1 or Division 2).

A “Letter of Validation” is required from the fabricator to verify certification. Companies certified in Division 1 or 2 are required to employ or retain a welding engineer. Welding Engineers are an essential component of a company’s certification and perform many tasks including the review of drawings for welding connection details and welding symbols, and the preparation of welding procedure data sheets.

Note that the structural engineer who complete the design drawings are not considered as one of the requirements of certification. It is possible, however, that the structural engineer and the welding engineer may be the same person.

The company that employs the welder must also have an individual qualified by the Canadian Welding Bureau as a supervisor.

The supervisor is responsible for supervising the welder carrying out the welds on the structure. All welders employed by the certified company must hold valid qualifications issued by the [Canadian Welding Bureau](#). A “Welding Supervisor Certification” is part of the application to the Building Division.

The following is required to obtain a Building Permit:

- Drawings of the steel dock stamped by a Professional Engineer; and
- Certificates of qualification for both the welder and supervisor, accompanied by a letter stating they have a contract to construct the superstructure.

Once the Building Permit has been issued and the steel dock constructed, a final engineer’s report for the dock and superstructure will be required to be submitted to the Chief Building Official stating that the structure(s) has been constructed in accordance with the design and Building Permit.