

CAN/CSA-S269.2-M87 Access Scaffolding for Construction Purposes Welding Requirements

This document provides an overview of the requirements of CAN/CSA-S269.2-M87 – Access Scaffolding for Construction Purposes with respect to welding. It is designed to provide guidance for individuals and organizations involved in the design, fabrication, erection, inspection, testing, maintenance, and use of scaffolding equipment, materials, and components where scaffolds are erected to provide working platforms for workers and materials during the construction, alteration, repair, or demolition of buildings and other structures.

This document is only for general guidance purposes; reference to the full text of CSA S269.2 should be made. For further information, please contact the CWB at 1-800-844-6790 or info@cwbgroup.org.

Introduction

Welding is a key joining method used in the fabrication of access scaffolding for construction purposes. To ensure welds of the highest quality and the safety of both the users of scaffolds and the general public, CSA Standard S296.2 provides specific requirements around the design, testing, and manufacture of access scaffolding for construction purposes, with awareness that the scaffolds will be accessed by personnel.

Welded Fabrication

CSA S269.2 provides the following requirements:

6.3 Codes and Standards

Codes and Standards Subject to the overriding or qualifying requirements of Clauses 6.4 and 6.5, the detailed structural analysis, the selection of members, and the arrangement of members shall comply with the procedures and requirements of the Codes and Standards listed in Table 1 for various materials.

Table 1 - Design

Design of scaffolds shall be in accordance CSA Standard S16-09-Design of Steel Structures, CSA Standard S136-07-North American Specification for the Design of Cold Formed Steel Structural Members, CSA Standard S157-05-Strength Design in Aluminum, CSA G40.20-04/G40.21- General requirements for rolled or welded structural quality steel/ Structural quality steel and HA Series-M1980 CSA Standards for Aluminum and Aluminum Alloys replaced by ISO 6361-2 or ISO 6362-2 Aluminum Standards and Data.

Table 1 - Welding Standards

All welding shall meet the requirements of CSA Standard W47.1 and CSA Standard W47.2 or AWS Standards D1.1.

CSA Standard W47.1 and/or CSA Standard W47.2 provide requirements for the qualification of welders and welding operators, welding procedures and welding supervisory and engineering personnel.

CSA Standard W47.1 and/or CSA Standard W47.2 require that all welding procedure specifications and welding procedure data sheets shall be submitted to the Bureau for review and acceptance in accordance with this and other applicable governing standards (e.g., CSA W59, W59.2)

CSA Standards W59 and W59.2 provide guidance on weld design, fabrication techniques, inspection and other key considerations around welding for steel and aluminum respectively.

An organization meeting the requirements of CSA Standard W47.1 and/or CSA Standard W47.2 will have qualified welders, accepted welding procedures and accepted supervisory/engineering personnel. All elements of the welding operation will be independently verified by the Canadian Welding Bureau on an on-going basis.

Please note that there are no domestic or international equivalents to CSA Standard W47.1 and/or CSA Standard W47.2. Other national systems, such as that of the American Welding Society (AWS) do not include key concepts such as independent and on-going verification and welding supervisors/engineers. Although CSA Standard S269.2 recommends alternative standards for welding, the CWB strongly cautions the reader around accepting substitutions; doing so may place public safety at risk.

For a listing of all organizations that currently meet the requirements of CSA Standard W47.1 and/or CSA Standard W47.2 and please see www.cwbgroup.org.

Welding Inspection

CSA Standard W59 and / or CSA Standard W59.2 require that all welds be visually inspected. In addition, when required by contract weld inspection must be completed by certified welding inspectors or a welding inspection organization following the requirements of CSA Standard W178.2 or CSA Standard W178.1 respectively. It also requires that CSA Standard W59 and / or CSA Standard W59.2 be followed for the acceptance criteria for all welds. It should be noted that CSA Standard W178.2 has individual “product categories” that inspectors may qualify to, including one for CSA Standard W59 and CSA Standard W59.2.

For a listing of all organizations and individuals who currently meet the requirements of CSA Standard W178.1 and CSA Standard W178.2, please see www.cwbgroup.org.