

PART 29

FALSEWORK AND FLYFORMS

Application

29.1 This Part applies to every workplace where falsework or flyform systems are used.

Safe work procedures

29.2 An employer must

- (a) develop and implement safe work procedures for using falsework and flyform systems in the workplace;
- (b) train the workers who work with falsework and flyform systems in those safe work procedures; and
- (c) ensure that workers who work with falsework and flyform systems comply with those safe work procedures.

Employer to instruct workers

29.3 An employer must ensure that only a person competent in the use of falsework and flyform systems supervises the construction, installation, maintenance and dismantling of falsework and flyform systems.

FALSEWORK

Design of falsework

29.4(1) An employer must ensure that falsework is

- (a) designed and certified by a professional engineer and constructed, installed, used, maintained and dismantled in accordance with the professional engineer's specifications; or
- (b) designed, constructed, installed, used, maintained and dismantled in accordance with CSA Standard S269.1-1975 (R2003), *Falsework for Construction Purposes*.

29.4(2) Without limiting subsection (1), an employer must ensure that falsework is constructed and installed and used in accordance with the latest

edition of design drawings, including any field design changes and any other supplementary information certified by a professional engineer.

Design drawings requirements

29.5 An employer must ensure that falsework design drawings and any supplementary information include

- (a) sufficient information to enable the falsework to be assembled to meet the design requirements;
- (b) the minimum dimensions and materials of sills and other foundation members, including the load bearing capacity required of any material upon which sills are to be placed;
- (c) where concrete is to be placed, the sequence, method and rate of concrete placement to prevent overloading any part of the falsework; and
- (d) all field design details and any field modifications to be undertaken during construction and installation.

Load support

29.6 An employer must ensure that all partially assembled components of falsework are capable of supporting any load that will be or is likely to be imposed on them.

Falsework used for concrete

29.7 When falsework is used for the placement of concrete, the employer must ensure that

- (a) before each placement of concrete,
 - (i) the falsework is inspected to ensure that it is constructed in accordance with the design drawings and any supplementary information, and
 - (ii) a record of the inspection is kept at the construction project site;
- (b) the falsework is not removed until the concrete has attained sufficient strength to support itself and any load that will be or is likely to be imposed on it; and
- (c) where resupport of concrete is required after falsework has been removed, the method for the resupport has been designed and certified by a professional engineer.

FLYFORM SYSTEMS

Flyform design

29.8(1) An employer must ensure that

(a) a flyform system is designed and certified by a professional engineer and constructed, installed, used, maintained and dismantled in accordance with the professional engineer's specifications;

(b) the design and installation drawings and any supplementary information relating to the flyform system

(i) include a plan view, a longitudinal section and a cross-section of each type of panel to be used, and

(ii) indicate the calculated position of the centre of gravity of the panels;

(c) every panel used in a flyform system

(i) can resist a minimum horizontal load of 345 kg applied in any direction on the upper edge,

(ii) has a safety factor against overturning of at least 2.0, and its legs placed to attain this safety factor, and

(iii) has a safety factor against sliding of at least 1.5; and

(d) where any of the safety factors in clause (c) cannot be attained,

(i) the flyform panel is attached to a permanent structure with properly designed devices or an adjacent flyform panel so that the required safety factor is attained, and

(ii) where it is put in place using a crane or hoist, it is attached before it is unhooked from the crane or hoist.

29.8(2) When all flyform panels have been assembled to form one continuous piece of falsework, an employer must ensure that the falsework meets the safety factors required under clause (1)(c).

Moving flyforms

29.9(1) An employer must ensure that

(a) a worker rigging a flyform panel or system that is to be moved from one location to another near the edge of a structure is attached to a lifeline that meets the requirements of Part 14 (Fall Protection); and

(b) the flyform panel or system is cleared of all material that is not part of the designed structure before it is moved.

29.9(2) An employer must ensure that no worker detaches a rigging component on a flyform panel or system until the panel or system is stable and secure.

Inspection of flyforms

29.10 An employer must ensure that a flyform system is inspected by a competent person immediately after it is relocated to ensure that it is stable and meets the design specifications.