



## 0342 Light steel framing

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# 00 Design principles

## 0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

## Specification

### 01 General

As per current NATSPEC

### 02 Products

As per current NATSPEC except as follows:

#### 2.1 General

##### **Storage and handling**

Requirement: Transport all components to site and store if required in a manner so as not to damage or distort the components.

##### **Corrosion Protection**

Requirement: Use cold-formed steel sections with a minimum zinc coating mass of 350 gm/sqm. Provide additional protection as the design requires to suit the service conditions.

##### **Base Metal Thickness**

Requirement: Thickness of base metal of studs etc. is to be at least 0.75mm.

##### **Serviceability**

Requirement: The framing deflections are to be limited to ensure compatibility with the finishes.

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## 03 Execution

As per current NATSPEC except as follows:

### 3.3 Wall Framing

GUIDE NOTE: Delete subclause “Additional Support” nominated in NATSPEC Building Template/Worksection and include the following.

#### Supports

The wall studs are to be laterally supported at the base and at the top to withstand wind pressures, earthquake loads and any other loads specified herein and as per the AS. Take special care in the design of the framing around openings, where extra structural members, for window sills, door/window heads, may be necessary for stability.

#### Additional Supports

General: Provide additional support in the form of noggings, trimmers, fixing blocks for aluminium/steel door frames and aluminium windows, studs for support and fixing of lining, cladding, hardware, accessories and fittings. Maximum spacing of noggings: 1350 mm centres.

#### Impact Loads

Requirement: Design walls to withstand possible impact by a 2kN force applied at mid height. Design for greater forces if these are envisaged.

### 3.4 Roof Framing

#### Purlins

Location: Primary Schools

GUIDE NOTE: Check if steel members need to be perforated to assist in the ventilation of roof space. Perforations to comprise 15% of area of member.

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## 04 Selections

As per current NATSPEC.