



# 0001c Design Checklist - Bird Nuisance

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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).

## 0.02 Introduction

Bird infestation is a problem in some schools, causing nuisance from droppings and lice as well as causing ongoing cleaning and maintenance issues.

Where buildings are located in areas with no existing mature trees nearby, a number of elements require particular attention during design and documentation, to reduce the potential bird problems.

## 0.03 Exposed Structure and Internal Detailing

Carefully design the detailing of exposed structure and external finishes to avoid possible nesting and roosting positions, especially in exposed steel structural elements, overlapping roofs, high verandas, covered ways or eaves.

Eliminate insect and pest access to cavities in wall, roof, and structure especially at corrugated roofing or siding junctions.

Refer to [00 PLANNING AND DESIGN/0001C DESIGN CHECKLIST - SAFETY](#)

## 0.04 Floor and window sills

Provide steep slope (minimum 15° angle of inclination) or other detail to discourage perching or nesting on floor and window sills.

## 0.05 Bird Roosts

Birds are attracted to buildings with designs and details which generally provide:

- Shelter from prevailing winds
- Shelter from the hot sun

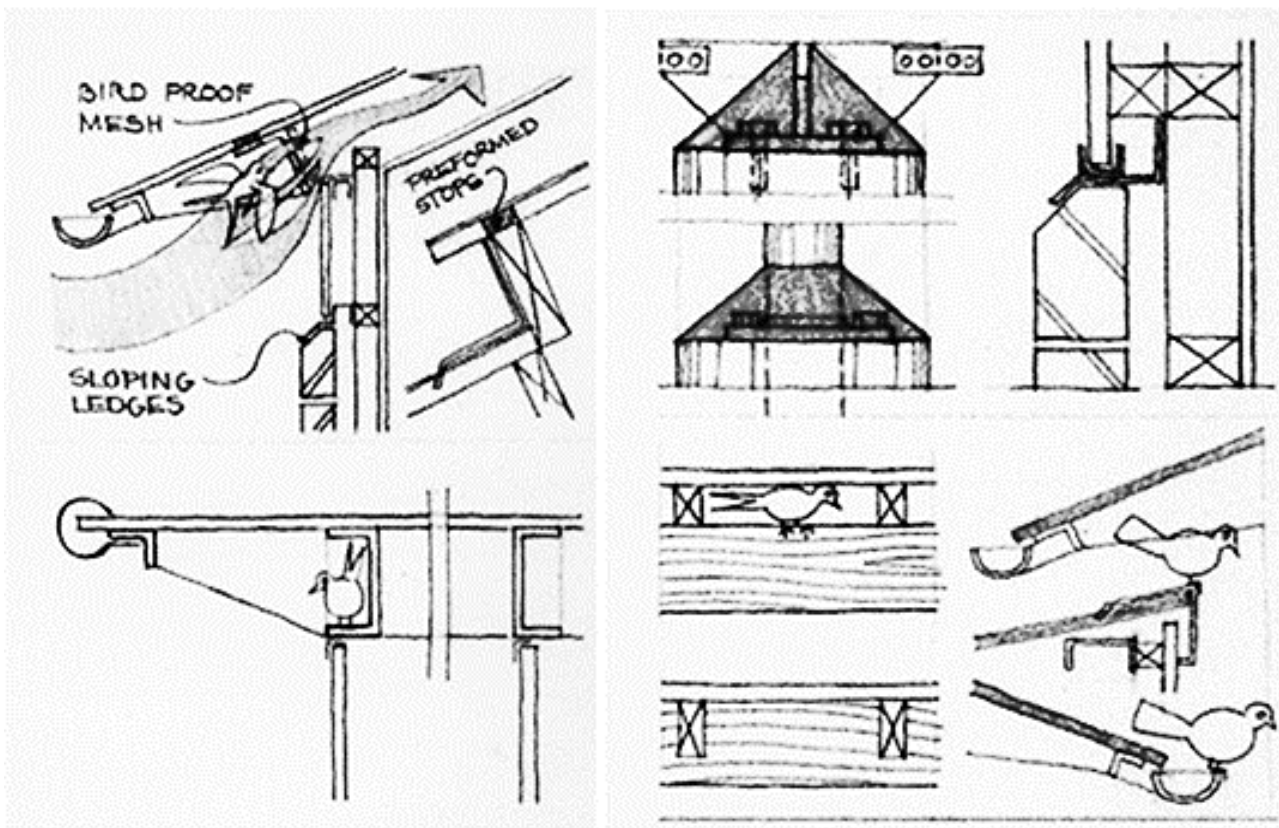
- Shelter and protection from other birds and animals of prey
- Facilities for perching and nesting

To minimise bird roosting consider the following:

- Roof Space
  - Prevent entry at eaves and roof junctions.
- Ledges
  - Avoid exposed beams, channels and purlins forming ledges.

Avoid use of open trusses and struts to external covered ways, awnings and shade.

**Figure 01: Preventative examples of Bird Roosting solutions**



- Transitions
  - Concrete columns: slope tops where reducing to smaller steel structure
  - Brickwork: slope top of external skin when joining to thinner metal cladding
- Structural Layering
  - Exposed roof structure: Avoid purlins laid over beams forming ledges between the purlins.
  - Overlapping Roofs: Avoid roofs overlapping so closely as to form bird havens.