

BD-05-ACOUSTIC LOUVRES

Ver.1

Date: October 2014

1. SCOPE

This Specification covers the requirements to be met in the provision and installation of acoustic louvres for the reduction of noise in buildings and structures used by Watercare.

2. GENERAL

Provide Acoustic Louvres as indicated on the Drawings, specified in the Equipment Schedules and Particular Clauses and described below.

All performance data submitted shall be supplied with type test certificates from a recognised testing laboratory certifying the performance of all units. Alternatively, each type and model of louvre shall be laboratory tested for this project by an independent authority.

3. DESIGN

The louvres shall be of weatherproof design suitable for and proven for use in the specific application.

Units shall have neatly mitred, tightly butted corners, and shall be free of rattles

4. MATERIALS

The louvre shall be constructed from powder coated aluminium.

Sound absorbent splitters shall have acoustic infill of mineral Rockwool, Fibreglass or other approved acoustic material. The infill shall have the following properties to AS 1530:

Spread of Flame Index (SFI) Not greater than 0

Smoke Developed Index (SDI) Not greater than 3

The acoustic infill shall be faced to prevent fibre carry over and covered by perforated galvanised sheet steel.

Louvres shall be supplied complete with vermin/bird mesh.

Louvres subject to internal moisture ingress or moisture in the air stream shall have Melanex or equivalent moisture resistant internal lining.

5. FINISH

The louvres shall have a powder coated finish of a colour to be specified by the Engineer.

To enhance corrosion resistance of louvres, each component shall be powder coated on both sides before assembly.

All visible surfaces of the assembled louvre shall again be powder coated on completion to cover fixings etc.

Provide powder coated flashings, channels, flanges and pre painted rivets that are required to complete the installation.

6. INSTALLATION

The louvres shall be installed in accordance with the manufacturers written instructions and the Drawings.

The Supplier/Contractor shall measure the openings to be covered on site prior to manufacture.

Shop drawings showing proposed louvre construction and attachment details shall be submitted to the Engineer for approval prior to commencement of louvre manufacture.

Seal and fixing details shall be designed by the manufacturer to equal or exceed the specified louvre acoustic performance.