

System 23

Louvre system

The Metal Technology aluminium Louvre System offers louvres that can be used on their own or integrated within other Metal Technology systems.



Introduction

The basic suite has odd and equal leg sections to allow the louvres to be fitted either directly into the structure or into other Metal Technology systems. The system offers a 33.3mm pitch louvre blade with fly screen or bird mesh which can be fitted during manufacture. Various other profiles can be designed and incorporated allowing architects to achieve flexible designs.

As with all Metal Technology Systems, the Louvre System is manufactured to exacting standards enabling economy to be combined with strength to give many years of aesthetic, trouble free operation.

Scope

This specification defines materials, construction, finishes and size limits for the Louvre System.

Materials

Aluminium profiles are extruded from aluminum alloy 6060T6, T5 or T4 complying with the recommendations of BS EN 12020-2 / BS EN 755-Parts 1 to 9: 2001.

Finishes

The range of sections can be provided in either of the following ranges of finishes:

1. Anodised to BS 1615 or BS 3987
2. Powder organic coated to BS 6496: 1984 or BS EN 12206-1: 2004

Construction

Frame members are mitre cut at 45°, corners are reinforced with extruded aluminium cleats and a secure joint is formed by crimping into the extruded cleat. Intermediate mullion bars are square cut and fixed securely to the frame with stainless steel screws. All frame joints are sealed during construction against entry of water using a suitable sealant/adhesive. The louvre blades are supported and retained at each end and at mullion positions by louvre carrier sections that slide into position.

Louvre blades clip onto the carriers and are self spacing to give a regular pitch. Infill louvre blades are also provided at the head of the louvre frame to achieve non-modular louvre heights. If required, an addition drainage section with stop ends can be fixed to the cill of the frame.

Installation

Detailed installation instructions are provided which should be strictly followed.

Size Limits

The size limits for the louvre system should be in accordance with this manual. The maximum unsupported span for the P33 blade is 1000mm. Where longer blades are required, these must be supported at intervals using the blade support mullion or box mullion. In addition to the above, fabricators shall give consideration to the structural limitations of the intermediate supporting members in accordance with the wind loading charts, and the maximum sizes they are able to safely handle without damaging the louvre blades or sealed corners of the frames.

Performance

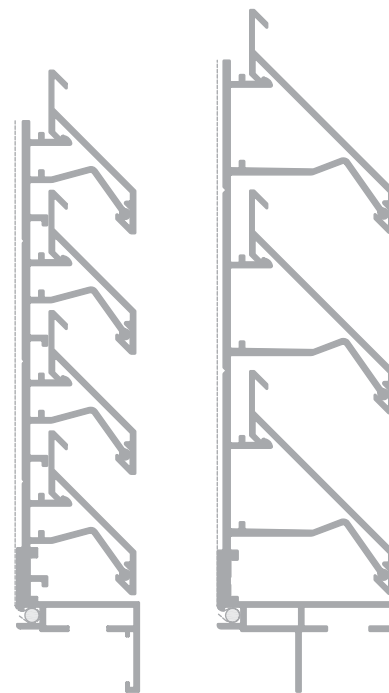
The P33 Louvre has been independently weather tested at BSRIA to EN 13030 and is capable of achieving the following results:

Water resistance -	Up to Class A
Air -	Class 4
Geometric percentage free area (excluding outer frame) -	37%

Full test report details are available on request.

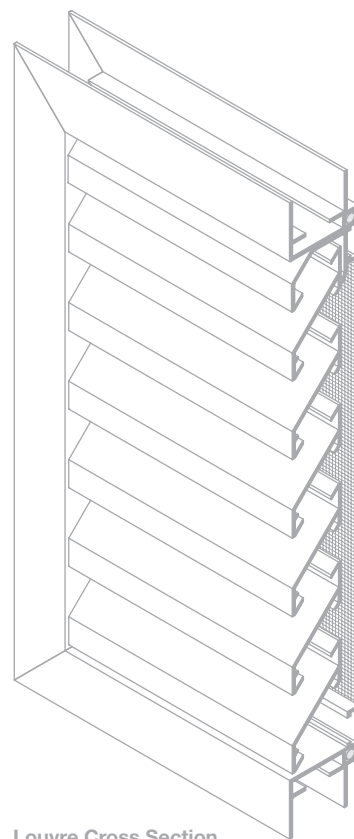
Development

Our policy is to continually research the market for new and improved products. We must therefore to retain the right to amend specifications without prior notice. It is recognised at Metal Technology that in some instances special sections may be required for particular projects. When this occurs it may be possible to produce special sections subject to there being sufficient quantity and adequate time.



P33 Louvre

P50 Louvre



Louvre Cross Section