

System 23 Louvre System

The Metal Technology aluminium Louvre System offers versatility through design by providing a system that can meet the differing demands in weathering, ventilation and aesthetics. Louvres can be offered as stand alone 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 both 33.3mm and 50mm pitch louvre blades 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 aluminium alloy 6060T6, T5 or T4 complying with the recommendations of BS EN 12020-2 / BS EN 755-Parts 1 to 9.

Finishes

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

1. Anodised to BS EN 12373-1 or BS 3987
2. Powder organic coated to BS 6496 or BS EN 12206-1

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 additional 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 and for the P50 blade is 1100mm. 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. Minimum sizes will be determined by the limitations of the fabricator's crimper.

Performance

The P33 and P50 Louvres have been independently weather tested at BSRIA to EN 13030 and are capable of achieving the following results:

- P33 water resistance - Up to Class A
- P50 water resistance - Up to Class A

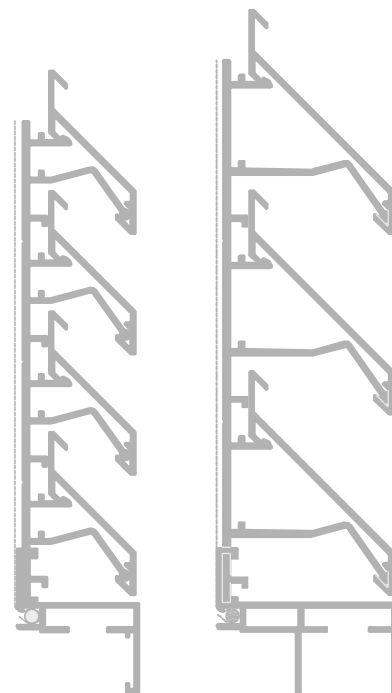
Geometric/physical free area:

- P33- 44%
- P50- 51%

The geometric/physical free areas exclude the outer frame, top infill, and bottom blade. Full test report details are available on request.

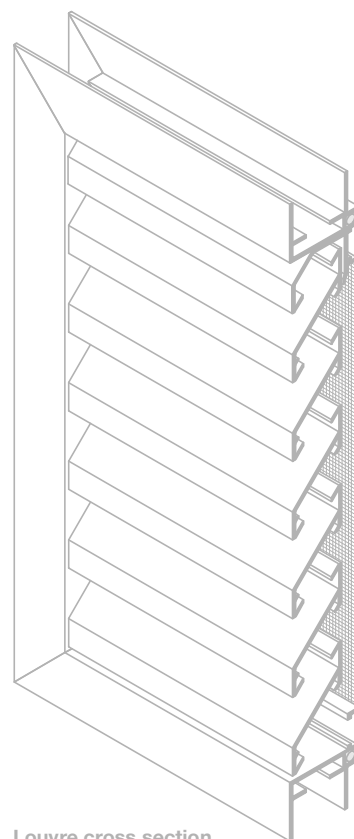
Development

Our policy is to continually research the market for new and improved products. We must therefore 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



Metal Technology Limited
 Steeple Road Industrial Estate
 Steeple Road | Antrim
 Northern Ireland | BT41 1AB

Telephone +44 (0)28 9448 7777
 sales@metaltechnology.com
 metaltechnology.com

This document has been printed on 100% recycled paper.

