

SPECIFICATION
For the
Supply and Installation of

BRITAL LV-2-50

Louvre System

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TWC/JA/27680/Brital
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File B/Specifications/LV-2-50

SPECIFICATION**1.0 Scope**

- 1.1 Brital Louvres shall be BRITAL LV-2-50 manufactured from extruded aluminium sections, with integral fly screens.

2.0 Materials

- 2.1 All extruded aluminium provided shall be grade 6063 T6 and shall be extruded to BSEN12020 and supplied only by BRITAL approved aluminium extrusion companies.
- 2.2 All assembly screws shall be grade A2 or A4 austenitic stainless steel (class 70).
- 2.3 Extruded gaskets and EPDM cord shall be supplied by Technical Seal, the specified BRITAL gasket supplier as detailed in BRITAL Technical Manuals.
- 2.4 The wall thickness of structural members shall comply with the requirements of BS8118 Pt1 and shall not be less than 1.5 mm (nominal).

3.0 Construction

- 3.1 BRITAL LV-2-50 Louvres shall be supplied in pre assembled frames.
- 3.2 All joints shall be formed from using accurately mitre cut and jointed with either extruded aluminium crimped corner cleats or cast aluminium or aluminium corner mechanical cleats secured by tightening a stainless steel screw. All joints shall be fully sealed during construction.
- 3.3 All louvres shall be provided with an aluminium fly mesh of a grid not greater than 2mm x 2mm, which shall be retained in an integral groove in the louvre section by means of an EPDM cord

4.0 Performance

- 4.1 The louvres shall be designed to resist the maximum expected 3 second wind gust with a return period of 50 years.
- 4.2 Wind Resistance
- At the maximum design wind load, the maximum deflection on the Brital louvre blades shall not exceed: Span/ 100
- 4.3 Louvre blades shall be limited to an unsupported length of 1200mm after which an extruded aluminium mullion shall be provided to support the blade

5.0 **Finishes**

All exposed aluminium extrusion surfaces shall be finished to either:

5.1 **Polyester Powder Coat**

Polyester Powder coating shall be applied in accordance with either BS6496 or BSEN 12206. The film thickness shall be no less than 40 µm and on average no less than 50 µm.

5.2 **Anodising**

Anodised aluminium should be either Natural (silver) or coloured to BS1615, BS3987 or BSEN 12373. Minimum thickness of anodic coating shall not be less than 25 µm.

6.0 **Supply & Installation**

6.1 BRITAL Louvres shall only be supplied and installed by Approved contractors.

6.2 The design and installation shall be in accordance with BRITAL Fabrication and Installation Manual.

6.3 All working drawings produced by the approved BRITAL fabricator shall be submitted to BRITAL for review and comment prior to the commencement of erection on site.

7.0 **Submissions**

7.1 Prior to fabrication, the approved BRITAL sub-contractor shall submit sample boards showing samples of all relevant extrusions and other components, relevant to the project.

8.0 **Protection and Cleaning**

8.1 All visible surfaces of the aluminium sections shall after finishing be protected with self-adhesive low-tack tape.

8.2 The low-tack tape shall be removed prior to hand over, either by the Window / door Fabricator or the Main Contractor (subject to agreement between the two).

8.3 The protective tape shall not be left on the aluminium sections longer than necessary.

9.0 **Operation and Maintenance**

9.1 The louvres shall be operated and maintained in accordance with the recommendations found in the relevant section of the BRITAL Specifiers Manual.