

The Brital Aluminium Brise Soleil System offers a range of Brise Soleil profiles that can be used on their own or integrated within the Brital Curtain Walling Systems.

### Introduction

The basic suite has blades from 100mm to 400mm wide to suit most architectural requirements. They can be fitted either directly into the structure or onto Brital curtain walling systems. The system offers a number of one piece blades or can be made up of 3 pieces to form larger blades. The Brise Soleil is hung horizontally or vertically. Various other profiles can be designed and incorporated allowing architects to achieve flexible designs.

In addition Brital Systems can supply solid blades that can be fixed on cantilever fixing.

As with all Brital Systems, the Aluminium Brise Soleil System is manufactured to exacting standards enabling economy to be combined with strength to give many years of trouble free operation.

### Scope

This specification defines materials, construction, finishes and size limits for the Aluminium Brise Soleil System.

### Materials

The aluminium profiles are extruded from aluminium alloy 6060 T6 complying with the recommendations of BS EN 12020-2:2008. BS EN 755-9:2008.

### Finishes

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

1. Anodised to BS 1615 or BS 3987
2. Powder organic coated to BS 6496

(Brital do not recommend the painting of stainless steel components.)

### Construction

The Brise Soleil Blades are square cut and fixed securely to the hangers or the side of the support arms with steel screws. Brackets are pre fixed to the curtain walling or building structure, before the Brise Soleil hangers are installed onto brackets.

The centre part of the 3 part blade is then fixed to cleats on the hanger, then the bull nose front and back sections are clipped to the centre section.

Special fixing brackets are available for all of the Brital curtain walling systems to make the application of Brise Soleil a simple and trouble free operation.

### Structural

Brise Soleil Blades are designed for a maximum deflection of SPAN/100 but not more than 25mm

### Installation

Detailed installation instructions are provided which should be strictly followed.

### Performance

Brital Brise Soleil System is designed to reduce solar gain into the building and in order to do this the blades must be spaced at the pitches shown on the charts included in this manual. The pitches can be arranged to exclude the sun throughout the year or with larger spacing for 9 months of the year allowing the benefit of

solar gain in the winter months.

### Size Limits

The Brise Soleil system can be used for the blades up to 4.0m long. For the Vertical and Horizontal Brise Soleil, size limits are generous and the main limit on the design will be the wind load on the blade. Loading Charts are provided for the design of both the blades and the cantilever support arm for the horizontal arrays.

### 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 that in some instances special sections may be required for particular projects. When this occurs it may be possible to produce bespoke sections.

### Shading

The use of Brise Soleil may affect the thermal stability of the glazing behind, this should be checked with glass supplier.

### Fixings

For an improved appearance Dome nuts may be substituted for the standard nuts show in this manual, refer to sheet number 9/2.