

SPECIFICATION

Specification: Solar shading system Ducosun F Multifit

Manufacturer: Duco 'Ventilation & Sun Control'

Type: Ducosun F Multifit

Materials: a) Aluminium : EN AW – 6063 T66
Surface treatment :
Aerofoils:
Standard natural anodised (15-20 µm) (VB6/A20/VOM1)
Enamelled polyester powder coating (60-80 µm)
Multifit:
Enamelled polyester powder coating (60-80 µm)

Construction:

Ducosun F Multifit is a permanent, external solar shading system comprising an Aerofoil type louver and a bespoke Multi-fit bracket. The Multifit bracket consists of a base and a fork that is Aerofoil specific. Ducosun F Multifit can be adjusted in 11 positions in 15° increments.

The angles available are: -75°, -60°, -45°, -30°, -15°, 0°, 15°, 30°, 45°, 60° en 75°. After positioning, the angle is rivetted with two Hexagon socket button had cap screws.

The maximal span (for a standard F Multift of 40 mm) should be calculated considering the applicable dynamic loadings caused by wind and other elements. When snowloads may be excluded, the table below provides max. span:

Blade	Windload 600Pa (± 115km/h)	Windload 800Pa (± 130km/h)	Windload 1250Pa (± 165km/h)
200F	3600 mm	2800 mm	1900 mm
300F	3100 mm	2500 mm	1600 mm

IMPORTANT:

The above values are CONDITIONAL to:

Assembly as per Duco instructions.

The max. deflection of the Aerofoil is 15mm, as per European Directive

ENV 1999-1.

The values as per above table will vary, when one of the above conditions is not met. In that case, strength calculation will need to be performed again.

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Basic components

- *Fixation:*
 - 1) Directly onto the construction.
 - 2) To a Duco rafter using a nutplate M8.Ducosun F MULTIFIT provides for a hidden fixation to the support structure.

- *Multifit Base:*
 - Materials: Aluminium Al Mg Si 0,5.
 - Assembly instruction: The Multifit Base is fitted to the constructions by means of a bolt M8 and a nutplate or directly to the construction in accordance with the instructions of the manufacturer.

- *Multifit fork:*
 - Type : Multifit fork 60 (for blade 200 F)
 - Materials : Aluminium extrusions Al Mg Si 0.5
 - Assembly instruction : Assemble the Multifit fork 60 on the Multifit base in accordance with the instructions of the manufacturer.

 - Type : Multifit fork 80 (for blade 300 F)
 - Materials : Aluminium extrusions Al Mg Si 0.5
 - Assembly instruction : Assemble the Multifit fork 80 on the Multifit base in accordance with the instructions of the manufacturer.

- *Elliptical blades:*
 - Types: Blade 200 F, 300 F
 - Form : Elliptical
 - Materials : Aluminium extrusions Al Mg Si 0.5
 - Blade Thickness : 37 mm (200 F), 50 mm (300 F)
 - Wall Thickness : Min. 1,6 mm (200 F), min. 1,7 mm (300 F)
 - Surface treatment : Standard natural anodised (15-20 µm) (VB6/A20/VOM1).
Enamelled polyester powder coating (60-80 µm).
 - Assembly instruction : Fix the blades onto the Multifit fork by means of screws Ø 4,8 x 25 (200 F, 300 F).

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Endplate:

Standard or bespoke bound endplates are available.

Materials :

Aluminium plate Al Mg 3 G22, lasercut, thickness 3 mm.

Surface treatment :

Standard natural anodised (15-20 µm) (VB6/A20/VOM1).

Enamelled polyester powder coating (60-80 µm)

Assembly instruction :

Assemble in accordance with the instructions of the manufacturer. The plates can be fitted with screw holes and customized for bespoke requirements. Lasercut, aluminium endplates, fixed to the blades with concealed stainless steel screws Ø 6 x 40.

General :

Supplier: Bridge Solar Ltd, Units 1-2 Northend Road, Stalybridge, Cheshire. SK15 3AZ sales@louvre.co.uk

Specifications and drawings can be downloaded from

www.bridgesolar.co.uk, or www.duco.be

Assemble in accordance with the instructions and the estimation programs of the Manufacturer.

Construction must fully meet the requirements of the Building Regulations and other legal requirements.