

SPECIFICATION

Specification: Solar shading system Ducosun F+

Manufacturer : Duco 'Ventilation & Sun Control'

Type : Ducosun F+

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)

Construction :

Ducosun F+ is a permanent, external solar shading system with movable, aluminium blades. The spring-taps allow for clearance a small distance between the blade and the support construction. Ducosun F+ is a fully rustproof system!

The maximum span depends on the max dynamic loading provided by wind and for wind combined with extra loadings (e.g. snow, ice, etc.).

Blade	Windload 600Pa (± 115km/h)	Windload 800Pa (± 130km/h)	Windload 1250Pa (± 165km/h)
200F+	2600 mm	2400 mm	2100 mm
300F+	3300 mm	3000 mm	2600 mm
400F+	4000 mm	3700 mm	3200 mm

IMPORTANT:

The above values are CONDITIONAL to:

The blades are fixed with Duco springtaps.

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 parts:

- **Springtap:**
 - Materials : Bodymade from Polyamid featuring a stainless steel spring-tap.
 - Assembly instruction : Assemble in accordance with the instructions of the manufacturer.

- **Elliptical blades:**
 - Types: Blades 200 F+, 300 F+, 400 F+.
 - Form : Elliptical
 - Materials : Aluminium extrusions EN AW – 6063 T66
 - Blade Thickness : 37 mm (200 F+), 50 mm (300 F+), 63 mm (400 F+).
 - Wall Thickness : Min. 1,6 mm (200 F+), min. 1,7 mm (300 F+), min. 2 mm (400 F+)
 - Surface treatment : Standard natural anodised (15-20 µm) (VB6/A20/VOM1)
 - Assembly instruction : Enamelled polyester powder coating (60-80 µm)
The spring-tap is fitted to the blade and kept in its position by the coverplate. The aluminium rod is fitted to the coverplate by means of a stainless steel bolt and nut M8.

- **Electrical linear drive motor:**
 - Span on request.
 - Movable between fully open and fully closed position.

- **Endplates:**
 - Materials : Standard or bespoke endplates are available.
Aluminium plate Al Mg 3 G22, lasercut, thickness 5 mm.
 - Surface treatment : Standard natural anodised (15-20 µm) (VB6/A20/VOM1).
 - Assembly instruction : Enamelled polyester powder coating (60-80 µm)
Assemble in accordance with the instructions of the manufacturer. The plates can be provided with screw holes and customized for bespoke requirements.

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General :

Consult your supplier or the Project Department of Duco 'Ventilation & Sun Control' for commercial and technical assistance (specifications, assembly instructions, part lists, estimation programs, ...). Tel. 0032-58/33 00 33, fax 0032-58/33 00 44, info@duco.be. Specifications and drawings can be downloaded from 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.