

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 fixed aluminium blades fitted to coverplates, mounted to obtain the required shading angle.

The maximum span (for a standard F 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	Blade angle	Dimension Ymin* (mm) (cc. Fixation)	Windload 600Pa (± 115km/h)	Windload 800Pa (± 130km/h)	Windload 1250Pa (± 165km/h)
150F	45°	80	4000 mm	4000 mm	3400 mm
	0°	60	4000 mm	4000 mm	3400 mm
200F	45°	100	4100 mm	4100 mm	3700 mm
	0°	70	4100 mm	4100 mm	3700 mm
300F	45°	140	4700 mm	4700 mm	4500 mm
	0°	100	4700 mm	4700 mm	4500 mm
400F	45°	150	5300 mm	5200 mm	4800 mm
	0°	110	5300 mm	5000 mm	4000 mm

* Ymin: the minimal cc-distance of the bolts with which the coverplate is fixed to the rafter of the construction.

IMPORTANT:

The above values are CONDITIONAL to:

Aerofoils are "bolted" by means of 2 Duco supplied side-plates against a solid

structure or construction (e.g. Steelstructure).

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:

- **Elliptical blades:**
 - Types: Blade 150 F, 200 F, 300 F, 400 F
 - Form : Elliptical
 - Materials : Aluminium extrusions Al Mg Si 0,5
 - Blade Thickness : 35 mm (150 F), 37 mm (200 F), 50 mm (300 F), 63 mm (400 F)
 - Wall Thickness : Min. 1,4 mm (150 F) 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) Fixation to existing structures by means of bolts M 8 or T-Bolts or nutplates M8 to the rafter.

- **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) Fix in accordance with the instructions of the manufacturer. The plates can be provided with screw holes and modify as the project.

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.