

## SPECIFICATION

### Specification text : DucoSun F Unifit solar shading system

Make : Duco 'Ventilation & Sun Control'

Type : DucoSun F Unifit

Material : a) Aluminium : EN AW – 6063 T66

Surface treatment :

Louvre blades :

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

Stove enamelled and polyester powder coated (60-80µm)

Unifit :

Stove enamelled and polyester powder coated (60-80µm)

#### Physical Description :

DucoSun F Unifit is a permanent, external solar shading system made of fixed extruded aluminium louvre blades. Fixing is provided by the Unifit system. This system features 'fixed' forks. The DucoSun F Unifit can be set at an angle of 0° or 45° when fitted. DucoSun F Unifit is available with horizontal or vertical blade orientation.

The maximum span (at a 40 mm standard width) must be calculated on the basis of wind, snow and vibration loads, according to the prevailing local standards. If snow load is not applicable the following table can be used :

Unifit assembly					
Louvre blade	Type	Unifit fork width (mm)	Wind resistance 600 Pa (± 115 km/h)	Wind resistance 800 Pa (± 130 km/h)	Wind resistance 1250 Pa (± 165 km/h)
200 F	0°	40	3600	3600	3600
200 F	45°	40	3600	3600	3600
250 F	0°	40	3700	3700	3100
250 F	45°	40	3700	3700	3700
300 F	0°	40	3900	3200	2100
300 F	45°	40	3900	3900	2700

#### Important :

The above values are only valid if the following conditions are met .

The Duco fitting procedure must be followed.

The Duco Single Fork must be used.

Maximum louvre blade deflection must be 15 mm to conform to EU ENV 1999-1.

Under no circumstances must these maximum values be exceeded.

Strength should be recalculated for every situation in which the above conditions are not met.

Contact Duco 'Ventilation & Sun Control' for more details.

## SPECIFICATION



### Basic components :

#### Fixing options :

- 1) Directly to the structure.
- 2) To a support profile using an M8 washer-plate.

#### Unifit Fork :

##### Material :

Aluminium Al Mg Si 0.5

##### Installation :

The Unifit Basis is fitted to the washer-plate or directly to the structure using an M8 bolt, as per manufacturer's instructions.

### Oval-shaped louvre blades :

#### Types :

200 F, 250 F, 300 F louvre blades

#### Shape :

Oval-shaped :

#### Material :

Aluminium extrusions Al Mg Si 0.5

Aerofoil blade thickness : 37 mm (200 F), 43.5 mm (250 F), 50 mm (300 F)

#### Wall thickness :

Min. 1.6 mm (200 F), min. 1.7 mm (300 F)

#### Surface treatment :

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

Stove enamelled polyester powder coating (60-80 µm).

#### Fitting procedure :

The louvre blades are fitted to the Unifit Fork using 25 x Ø 4.8 screws (200 F, 250 F, 300 F).

#### - End caps :

Standard or project-specific end caps are available.

#### Material :

Aluminium plate, Al Mg 3 G22, laser-cut, thickness 3 mm

#### Surface treatment :

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

Stove enamelled and polyester powder coated (60-80µm)

#### Fitting procedure :

See manufacturer's instructions. The aluminium plates can have threaded holes prepared which are project-dependent. Laser-cut aluminium end caps fixed to the louvre blade using countersunk stainless steel 40 x Ø 6 screws.