TECHNICAL MANUAL
LOUVER

FLAT 25/50 LOUVRE

Project Engineering and Technical Support

HunterDouglas
Architectural

I+D & STV
Date: September 2015
This horizontal and/or vertical louvre is composed of rectangular, flat panels with two metallic sheets on the exterior joined by Aluminum honeycomb. The interior is composed of a support structure that gives the panel rigidity. This keeps the panel attached to the project structure.

**PRODUCT DESCRIPTION**

**MAX. LENGTH OF FLAT LOUVRE 4000 mm**

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**MATERIAL**
- Zinacalume

**THICKNESS**
- Zinacalume between 0.6 and 0.8 mm (depends on project/product models and details)

**COLORS**
- Available in over 100 standard colors and custom colors

**USES**
- Louver

**FINISH**
- Smooth

**MAX. LOUVRE LENGTH**
- 4000 mm

**YIELD**
- Depends on the project

**MAX. MODULE**
- 664 mm (Flat 25 mm)
- 614 mm (Flat 50 mm)

**TABLE OF WEIGHTS (STANDARD PRODUCT)**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>MATERIAL</th>
<th>MODULE</th>
<th>TYPE</th>
<th>THICKNESS</th>
<th>WEIGHT kg/m²</th>
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<tr>
<td>FLAT 25</td>
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<td>COVER</td>
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<td>6.2</td>
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</table>

**NOTE:**

1. Final geometry should be validated based on studies of the load.
2. All measurements expressed in millimeters.
3. Contact the Technical Department for special measurements.
4. Product requires detail engineering for the entire product.

HunterDouglas
Architectural

I+D & STV
Date: June 2017
**COMPONENTS**

**FLAT 25**
- **MATERIAL:** ZINCALUME
- **TRAY** 0.8mm
- **COVER** 0.6mm

**FLAT 50**
- **MATERIAL:** ZINCALUME
- **TRAY** 0.8mm
- **COVER** 0.6mm

* Dimensions are general and for reference.
* The detail should be validated for each project.
TUBULAR MOUNT PROFILE
PROFILE 25 x 25 x 2 mm
MATERIAL: ELECTRO PAINTED GALVANIZED STEEL

INTERIOR TUBULAR PROFILE
PROFILE 20 x 20 x 1.5 mm
MATERIAL: ELECTRO PAINTED GALVANIZED STEEL

2 HD MOUNT BRACKETS
L 50x50x3mm L=40mm
MATERIAL: GALVANIZED STEEL (FOR ZINC ALUMINUM STRIP)
ELECTRO PAINTED ALUMINUM (FOR ALUMINUM STRIP)

FOR FLAT 25

TUBULAR PROFILE MOUNT PROFILE 45 x 45 x 2 mm
MATERIAL: ELECTRO PAINTED ALUMINUM

SPECIAL HD MOUNT BRACKET
MATERIAL: ELECTRO PAINTED ALUMINUM

FOR FLAT 50

TUBULAR PROFILE MOUNT PROFILE 45 x 45 x 2 mm
MATERIAL: ELECTRO PAINTED ALUMINUM

INTERIOR TUBULAR PROFILE
PROFILE 50 x 50 x 2 mm
MATERIAL: ELECTRO PAINTED ALUMINUM

Note: Contact Technical Department regarding other anchors.
FLAT 25 LOUVRE

FLAT 25 SUNSCREEN
FLAT STRUCTURE

**MAXIMUM LENGTHS**
VERTICAL 3.5m
HORIZONTAL 2m

*OPTIMAL MODULES*
664 mm
559 mm
459 mm
359 mm
Note: The installation system should be revised for each project.
**STEP 1**
Install the mount brackets on the structure based on the project. The installation of the brackets will vary by project.

**STEP 2**
2 Install the tubular mount profile on the brackets that have been affixed to the structure.

**STEP 3**
Install the flat assembled sunscreen (tray, cover, tubular interior profile and honeycomb), fitting the tubular mount with the interior tubular and affixing the Flat using inserted screws.
FLAT 25 SUNSCREEN INSTALLATION

2- OPTION 2 INSIDE OF OPENING

Note: The installation system should be revised for each project.
STEP 1
Design and installation of mount brackets and settings to be detailed based on project.

STEP 2
Place Flat in separation between brackets and affix using inserted screws.
FLAT 50 SUNSCREEN FLAT STRUCTURE

**OPTIMAL MODULES**
- 614 mm
- 509 mm
- 409 mm
- 309 mm

**MAXIMUM LENGTHS**
- VERTICAL 4m
- HORIZONTAL 3m

*INTERIOR TUBULAR PROFILE L BASED ON MODEL*

614 mm Max.

608 mm Max.

VERTICAL DISTANCE 4000 BETWEEN SUPPORTS

VERTICAL

608 mm Max.

HONEYCOMB 50 mm

INTERIOR TUBULAR PROFILE L BASED ON MODEL

FLAT 50 COVER
Zincalume 0.6 mm

Max. 2000 mm

Max. 2000 mm

Max. 614 mm

FLAT 50 TRAY
Zincalume 0.8 mm

FLAT 50 TRAY
Zincalume 0.8 mm

Zincalume 0.6 mm

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Date: August 2017

10/15
FLAT 50 SUNSCREEN INSTALLATION

1 - OPTION 1 OUTSIDE OF OPENING

- SPECIAL BRACKET
- FLAT 50 STRUCTURE BASED ON PROJECT
- FLAT 50 SUNSCREEN

- 50 + SPECIAL BAND + SPECIAL COVER
- 2 M8 x 70 INSERTED SCREWS w/ stainless security nut
- F 15 MOUNT BRACKET
- 614 MAX. DISTANCE

CUT A-A
1:5

I+D & STV
Date: August 2017

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INSTALLATION OUTSIDE OF OPENING

STEP 1
Install the special mount brackets in the structure based on the project.

STEP 2
Fit the flat into the brackets and affix it using the inserted screws.
FLAT 50 SUNSCREEN INSTALLATION

1 - OPTION* 1 INSIDE OF OPENING

Note: The installation system should be revised for each project.
STEP 1
Install special mount brackets inside of the opening.

STEP 2
Fit the flat into the special mounts and affix using inserted screws.
## UPDATE CONTROL SHEET

<table>
<thead>
<tr>
<th>REV.</th>
<th>DATE</th>
<th>DEVELOPMENT</th>
<th>DESCRIPTION</th>
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<tr>
<td>REV.1</td>
<td>August 2015</td>
<td>Elizabeth Tapia <a href="mailto:etapia@hdiao.cl">etapia@hdiao.cl</a></td>
<td>- General updating of installation.</td>
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</table>
| REV.2| September 2015 | Arnaldo Rodriguez arrodriguez@hdiao.com | - General updating of installation and measurements.  
                          |                                    | - Editing of thickness of lines.                              |
| REV.3| August 2017 | Javiera Nuñez janunez@hdiao.com     | - Modules modified.                                              |
|      |             |                                     | - Weight table updated.                                         |