TECHNICAL MANUAL

LOUVER

TUBRISE LOUVRE

Project Engineering and Technical Support

Hunter Douglas
Architectural

I+D / STV
PRODUCT DESCRIPTION

MATERIAL: Zincalume / Aluminum
THICKNESS: Zincalume 0.4 / 0.5 / 0.6 mm
           Aluminum 0.6 / 0.7 mm
COLORS: Available in over 100 standard colors
         and custom colors
USES: Louver
FINISH: Smooth or perforated
MAXIMUM LENGTH: We recommend that the length not exceed 6 meters
YIELD: 19.6 ml / m² (Separation 51 mm between axes)

WEIGHT TABLE
Tubrise Panel

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>MATERIAL</th>
<th>THICKNESS</th>
<th>WEIGHT Kg/ml</th>
<th>WEIGHT Kg/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUBRISE</td>
<td>Zincalume</td>
<td>0.4 mm</td>
<td>0.45</td>
<td>8.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.5 mm</td>
<td>0.56</td>
<td>11.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.6 mm</td>
<td>0.67</td>
<td>13.2</td>
</tr>
<tr>
<td></td>
<td>Aluminum</td>
<td>0.6 mm</td>
<td>0.23</td>
<td>4.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7 mm</td>
<td>0.26</td>
<td>5.2</td>
</tr>
</tbody>
</table>

*Weight table considers space of 51 mm.

NOTE: THE MATERIAL, SETTING FINISH AND ANCHORS MUST BE DETERMINED BASED ON THE PROJECT SPECIFICATION.
COMPONENTS

TUBRISE SETTING CLIP
ZINCALUME 1.0 / 1.2 / 1.5 mm
COD: 002040

SETTING RIVET
Ø4 x 16mm

SCORED MULLION PROFILE
A: ZINCALUME 1.5 mm
0 0 2 1 2 5

STAMPED ALUMINUM PROFILE
ALUMINUM 1.2 mm
COD: 0 0 2 1 3 0

SETTING BRACKET
ALUMINUM 2 mm
COD: 0 0 2 0 7 9

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Architectural
ASSEMBLED SET HORIZONTAL APPLICATION

- STAMPED T PROFILE
- MAX. DISTANCE BETWEEN SUPPORTS 1500
- SETTING CLIP
- MAX. DISTANCE BETWEEN SUPPORTS 1500
- OBLONG SCORED MULLION PROFILE
- STRUCTURE BY CALCULATION
- MAX. DISTANCE BETWEEN SUPPORTS 1200
- HORIZONTAL TUBRISE

ASSEMBLED SET HORIZONTAL APPLICATION TUBRISE

I + D / STV
Revision: 1
Date: January 2017
CUT A - A
HORIZONTAL APPLICATION

OBLONG SCORED MULLION PROFILE
STAMPED T PROFILE
HORIZONTAL TUBRISE
RIVET Ø4 x 16 mm
SETTING CLIP
SCORED MULLION PROFILE
PINNED LOCATION

MAX. DISTANCE BETWEEN SUPPORTS 1500 mm

HORIZONTAL TUBRISE

SETTLING CLIP

 DETAIL A

BASED ON WORK

STAMPED T PROFILE

I + D / STV
Revision: 1
Date: January 2017
CUT B - B
HORIZONTAL APPLICATION
CORNER MEETING OPTION 1
CUT B - B
HORIZONTAL APPLICATION
CORNER MEETING - OPTION 2

HORIZONTAL TUBRISE

STRUCTURE BASED ON CALCULATION

STAMPED ANCHOR

RIVET Ø4 x 16 mm

MAX. DISTANCE BETWEEN SUPPORTS 1500

SETTING CLIP

HORIZONTAL TUBRISE

OBLONG SCORED MULLION PROFILE

OPTION 2
DETAILED COVER WITHOUT AXIS

COVER WITHOUT AXIS
TUBRISE
MATERIAL: ALUMINUM
COD: 002059

ISOMETRIC
INTERIOR COVER
ALUMINUM TUBRISE
COD: 002059

ISOMETRIC
EXTERIOR COVER
ALUMINUM TUBRISE
COD: 002059
ASSEMBLED SET
HORIZONTAL APPLICATION
WITH COVER

MAX. DISTANCE BETWEEN SUPPORTS 1500

MAX. DISTANCE BETWEEN SUPPORTS 1200

SETTING CLIP

OBLONG SCORED MULLION PROFILE

STAMPED T PROFILE

HORIZONTAL TUBRISE

STRUCTURE BASED ON CALCULATION

ASSEMBLED SET HORIZONTAL APPLICATION WITH COVER WITHOUT AXIS TUBRISE

TUBRISE COVER WITHOUT AXIS

I + D / STV
Revision: 1
Date: January 2017
DETAIL COVERS WITH AXES

SHORT TUBRISE AXIS COVER
MATERIAL: ALUMINUM
COD: 002059

LONG TUBRISE AXIS COVER
MATERIAL: ALUMINUM
COD: 002059

LONG AXIS COVER
COD: 002059

SHORT AXIS COVER
COD: 002059
GENERAL SET HORIZONTAL APPLICATION
COVERS WITH AXES

NOTE:
- CONSIDER THE FORGED SERVICE IN THE 30 x 60 PROFILE

ALUMINUM PROFILE
30 x 60 x 1.5

PROFILE
PERFORATION
Ø 11.9mm

SPLIT SEPARATOR 13 mm

LONG AXIS COVER

PLASTIC HUB

SHORT AXIS COVER

ALUMINUM PROFILE
30 x 60 x 1.5
DETAIL OF DISTANCING
WITHIN OPENING

DISTANCING APPLICATION INSIDE OF OPENING TUBRISE

TUBRISE LENGTH
TL : AI - 22

MAXIMUM 1500 OPENING (0)
17.5 4.5

TL (SEE PICTURE)
AI (SEE PICTURE)
MAXIMUM 1500
OPENING (0)

12/19
I + D / STV
Revision: 1
Date: January 2017
ASSEMBLED SET
VERTICAL APPLICATION

MAX. DISTANCE BETWEEN SUPPORTS 2000

MAX. DISTANCE BETWEEN SUPPORTS 1500

VERTICAL TUBRISE

SETTING BRACKET

OBLONG SCORED MULLION PROFILE

SETTING CLIP

STRUCTURE BASED ON CALCULATION

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E - E CUT
VERTICAL APPLICATION

OBLONG SCORED
MULLION PROFILE

STRUCTURE BASED
ON CALCULATION

VERTICAL
TUBRISE

MAXIMUM DISTANCE
BETWEEN SUPPORTS 2000

MAXIMUM
140 mm

SETTING BRACKET

SETTING CLIP

RIVET
Ø4x16 mm
CUT F - F
VERTICAL APPLICATION
CORNER MEETING-OPTION 1

MAXIMUM 140 mm

SETTING CLIP
VERTICAL TUBRISE LOUvre
RIVET Ø4x16 mm
SETTING BRACKET
OPTION 1

STRUCTURE BASED ON CALCULATION
OBLONG SCORED MULLION PROFILE
RIVET Ø4x16 mm
VERTICAL TUBRISE

CUT B-B
HORIZONTAL APPLICATION - OPTION 1
TUBRISE

I + D / STV
Revision: 1
Date: January 2017
CUT F-F VERTICAL APPLICATION
CORNER MEETING OPTION 2

STRUCTURE BASED ON CALCULATION

VERTICAL TUBRISE LOUVER

VERTICAL TUBRISE

OBLONG SCORED MULLION PROFILE

MAXIMUM 143 mm

SETTING CLIP

ANCHOR BRACKET

RIVET Ø4x16 mm

RIVET Ø4x16 mm

CUT B-B
HORIZONTAL APPLICATION
OPTION 2
TUBRISE

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ASSEMBLED CURVED TUBRISE SET

MAX. DISTANCE BETWEEN SUPPORTS 1500

MINIMUM RADIUS 2.5 METERS

STAMPED ANCHOR

SETTING CLIP

STRUCTURE BASED ON CALCULATION

HORIZONTAL CURVED TUBRISE

ASSEMBLED CURVED TUBRISE SET
ASSEMBLED COUNTERCURVED TUBRISE SET

MAX. DISTANCE BETWEEN SUPPORTS 1500

MINIMUM RADIUS 2.5 METERS

STAMPED ANCHOR

SETTING CLIP

STRUCTURE BASED ON CALCULATION

ASSEMBLED CURVED TUBRISE SET
<table>
<thead>
<tr>
<th>DATE</th>
<th>DEVELOPMENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="mailto:janunez@hdiao.com">janunez@hdiao.com</a></td>
<td>- Updating of weight table.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>