Features

- Standardized solution for seamless integration with 1600 Wall System™1, 1600 Wall System™2, 1600UT System™1, 1600 Wall System™5, 1600 SS, 1600 SS SSG and 1630 SS IR.
- Tested for combined wind, snow and dead loads
- 30" (762 mm) and 36" (914.4 mm) deep Outriggers are standard
- Fully pre-engineered 90° and 135° inside and outside corners
- Thermally broken attachment method for 1600 Wall System™1, 1600UT System™1, 1600 SS, 1600 SS SSG and 1630 SS IR. 1600 Wall System™2 and 1600 SS SSG allow 2 sided SSG.
- Attachment bracket designed to accept shallow and deep covers
- Easy to use Load Charts quicken design process
- Refreshing new blade options, with tubular profiles for spanning wider openings
- 44 different combinations of outrigger and blade styles allow aesthetic & shading performance flexibility
- Qualified for up to 3 different LEED Certification criteria
- Permanodic™ anodized finishes in seven standard choices
- Painted finishes in standard and custom choices
- Shading performance can be analyzed by Solector™ Sun Shading Estimator Tool

Product Application

- Curtain Wall Facades
- Interior aesthetical application

For specific product applications, Consult your Kawneer representative.
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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Architects - Most extrusion and window types illustrated in this catalog are standard products for Kawneer. These concepts have been expanded and modified to afford you design freedom. Some miscellaneous details are non-standard and are intended to demonstrate how the system can be modified to expand design flexibility. Please contact your Kawneer representative for further assistance.

1600 WALL SYSTEM™1.................................................................4
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1600UT SYSTEM™1
  1" INFILL ...................................................................................6
  1-3/4" INFILL ..............................................................................7
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90° and 135° CORNERS ..........................................................12,13
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Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses (      ) are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal
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**NOTE:**

Horizontal sunshades are not recommended directly over entrances and walkways to eliminate any risk of injury due to falling ice or snow. Attachment bracket is painted only and will be painted to match anodized finish.

**SECTION VIEW THROUGH VERTICAL MULLION**

| SHOWN WITH 36" ROUNDED OUTRIGGER, AIRFOIL BLADE, BULLNOSE FASCIA, AND SHALLOW COVER. | STANDARD 1" (25.4) SHALLOW COVER | OPTIONAL 3-1/8" (79.4) DEEP COVER AVAILABLE |
Laws and building and safety codes governing the design and use of glass, metal, and wood walls and doors control the selection of product configurations, operating hardware, or glazing materials.

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Versoleil™ SunShade - Outrigger System

1600 WALL SYSTEM™ 2 APPLICATION

NOTE:
Horizontal sunshades are not recommended directly over entrances and walkways to eliminate any risk of injury due to falling ice or snow. Attachment bracket is painted only and will be painted to match anodized finish.
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NOTE:
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SHOWN WITH 36° CURVED OUTRIGGER, DIAMOND BLADE, CIRCULAR FASCIA, AND SHALLOW COVER.

SECTION VIEW THROUGH VERTICAL MULLION

STANDARD 1” (25.4) SHALLOW COVER
OPTIONAL 3-1/8” (79.4) DEEP COVER AVAILABLE

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Versoleil™ SunShade - Outrigger System

1600UT SYSTEM™ APPLICATION - 1-3/4" INFILL

NOTE:
Horizontal sunshades are not recommended directly over entrances and walkways to eliminate any risk of injury due to falling ice or snow. Attachment bracket is painted only and will be painted to match anodized finish.

SECTION VIEW THROUGH VERTICAL MULLION

SHOWN WITH 36" WEDGE OUTRIGGER, CIRCULAR BLADE, ANGULAR FASCIA, AND SHALLOW COVER.

OPTIONAL 3-1/8" (79.4) DEEP COVER AVAILABLE

STANDARD 1" (25.4) SHALLOW COVER
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NOTE:
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SECTION VIEW THROUGH VERTICAL MULLION

SHOWN WITH 36" SQUARE OUTRIGGER, WAVE BLADE, RECTANGULAR FASCIA, AND SHALLOW COVER.

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ADMG030EN

AUGUST, 2018

1600 SS APPLICATION

NOTE:
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SHOWN WITH 36” ROUNDED OUTRIGGER, FLARE BLADE, BULLNOSE FASCIA, AND SHALLOW COVER.

SECTION VIEW THROUGH VERTICAL MULLION

SHOWN WITH 36” ROUNDED OUTRIGGER, FLARE BLADE, BULLNOSE FASCIA, AND SHALLOW COVER.

NOTE:
Horizontal sunshades are not recommended directly over entrances and walkways to eliminate any risk of injury due to falling ice or snow. Attachment bracket is painted only and will be painted to match anodized finish.
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Versoleil™ SunShade - Outrigger System

NOTE:
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SHOWN WITH 36" ROUNDED OUTRIGGER, FLARE BLADE AND BULLNOSE FASCIA.
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NOTE:
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Shown with 36" ROUNDED OUTRIGGER, FLARE BLADE, BULLNOSE FASCIA, AND SHALLOW COVER.

SECTION VIEW THROUGH VERTICAL MULLION

DETAIL "A"

SHOWN WITH 36" ROUNDED OUTRIGGER, FLARE BLADE, BULLNOSE FASCIA, AND SHALLOW COVER.
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<table>
<thead>
<tr>
<th>90° INSIDE CORNER</th>
<th>90° OUTSIDE CORNER</th>
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<tbody>
<tr>
<td>1600 Wall System™1</td>
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<tr>
<td>1600 Wall System™2</td>
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</tr>
<tr>
<td>1600UT System™1</td>
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</tr>
<tr>
<td>1600 Wall System™5</td>
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</tr>
<tr>
<td>1600 SS</td>
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</tr>
<tr>
<td>1600 SS SSG</td>
<td>Use 1600 SS Double Mullion</td>
</tr>
<tr>
<td>1630 SS IR</td>
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Versoleil™ SunShade - Outrigger System
90° CORNERS - CURTAIN WALL

AUGUST, 2018
EC 97911-173

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Versoleil™ SunShade - Outrigger System
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AUGUST, 2018

90° CORNERS - CURTAIN WALL

SHOWN WITH 30" SQUARE OUTRIGGER, WAVE BLADE, RECTANGULAR FASCIA AND SHALLOW COVER.

SHOWN WITH 30" ROUNDED OUTRIGGER, WAVE BLADE, BULLNOSE FASCIA AND SHALLOW COVER.
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### 135° CORNERS - CURTAIN WALL

#### 135° OUTSIDE CORNER
**SINGLE MULLION EXAMPLE**

Shown with 36” CURVED OUTRIGGER, CIRCULAR BLADE, CIRCULAR FASCIA AND SHALLOW COVER.

#### 135° INSIDE CORNER
**DOUBLE MULLION EXAMPLE**

Shown with 36” CURVED OUTRIGGER, CIRCULAR BLADE, CIRCULAR FASCIA AND SHALLOW COVER.

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<thead>
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<th>135° INSIDE CORNER</th>
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</table>
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<table>
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<tr>
<th>STANDARD OUTRIGGERS</th>
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Versoleil™ SunShade - Outrigger System
OUTRIGGER / FASCIA / BLADE COMBINATIONS - CURTAIN WALL

ADMG030EN
AUGUST, 2018
EC 97911-173

Versoleil TM SunShade - Outrigger System
OUTRIGGER / FASCIA / BLADE COMBINATIONS - CURTAIN WALL

ADMG030EN
AUGUST, 2018
EC 97911-173

Versoleil TM SunShade - Outrigger System
OUTRIGGER / FASCIA / BLADE COMBINATIONS - CURTAIN WALL

ADMG030EN
AUGUST, 2018
EC 97911-173
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Versoleil™ SunShade - Outrigger System
OUTRIGGER / FASCIA / BLADE COMBINATIONS - CURTAIN WALL

<table>
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<th>30&quot; SQUARE OUTFRIGGER</th>
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</table>

30" CURVED OUTFRIGGER:
- DIAMOND
- SQUARE
- CIRCULAR

30" WEDGE OUTFRIGGER:
- CIRCULAR

36" WEDGE OUTFRIGGER:
- CIRCULAR

Versoleil™ SunShade - Outrigger System
ADMG030EN
AUGUST, 2018

EC 97911-173
OUTRIGGER / FASCIA / BLADE COMBINATIONS - CURTAIN WALL
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LOAD CHARTS - CURTAIN WALL

Versoleil™ SunShade - Outrigger System

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LOAD CHART EXAMPLE

1600 Wall System™1
30" OUTRIGGER

Combined Load (Wind, Snow, Ice, etc.) = 65 PSF

Outrigger Spacing = 5'-0"

Outrigger Projection = 30"

Looking at the chart the following combinations are possible:

30" LONG OUTRIGGER WITH:

A - CIRCULAR BLADE (482010)
  SQUARE BLADE (494011)
  DIAMOND BLADE (494011)

B - PLANAR BLADE (494007)

C - ARCH BLADE (494006)

D - FLARE BLADE (494008)

E - WAVE BLADE (494010)

F - INFINITY BLADE (494009)

G - AIRFOIL BLADE (494005)

LOAD IS A COMBINATION OF ALL APPLIED LOADS, SUCH AS WIND, SNOW, ICE, ETC. ACTING PERPENDICULAR TO THE BLADE. CHARTS HAVE BEEN ADJUSTED TO ACCOUNT FOR THE DEAD LOAD OF THE BLADES AND OUTRIGGER.

CENTER LINE TO CENTER LINE OF MULLIONS = OUTRIGGER SPACING (OS) + 0.938"

ALLOWABLE DEFLECTION IS BASED ON L/120.

CURVES SHOWN REPRESENT THE ALLOWABLE LOADING AT BOTH INTERMEDIATE AND CORNER CONDITIONS.
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Versoleil® SunShade - Outrigger System

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LOAD CHARTS - CURTAIN WALL

1600 Wall System™1, 1600 Wall System™2, 1600UT System™1 (With 1-3/4" Triple Glazed Infill) 1600 SS, 1600 SS SSG and 1630 SS IR (With 1-5/16" Double Glazed Infill)

OUTRIGGER SPACING

CENTER LINE TO CENTER LINE OF MULLIONS = (OS) + 0.938" (1600 System™1, 1600 SS, 1600UT System™1 and 1630 SS IR) (OS) + 1.062" (1600 System™2, 1600 SS SSG)

LOAD IS A COMBINATION OF ALL APPLIED LOADS, SUCH AS WIND, SNOW, ICE, ETC. ACTING PERPENDICULAR TO THE BLADE. CHARTS HAVE BEEN ADJUSTED TO ACCOUNT FOR THE DEAD LOAD OF THE BLADES AND OUTRIGGER.

OUTRIGGER SPACING (FT)

OUTRIGGER SPACING (METERS)

LOAD IN (PSF)

LOAD IN PASCALS (PA)

ALLOWABLE DEFLECTION IS BASED ON L/120.

CURVE NOTES:
LINES BECOME DASHED WHERE SPECIFIC BLADES LIMIT LOAD CAPACITY.
CURVES SHOWN REPRESENT THE ALLOWABLE LOADING AT BOTH INTERMEDIATE AND CORNER CONDITIONS.

A - 30" or 36" OUTRIGGER with
CIRCULAR BLADE 482010 or SQUARE / DIAMOND BLADE 494011
B - PLANAR BLADE 494007
C - ARCH BLADE 494006
D - FLARE BLADE 494008
E - WAVE BLADE 494010
F - INFINITY BLADE 494009
G - AIRFOIL BLADE 494005

OUTRIGGER SPACING (OS)
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Versoleil™ SunShade - Outrigger System
LOAD CHARTS - CURTAIN WALL

1600 Wall System™5 and 1600UT System™1 (With 1” Double Glazed Infill)

OUTRIGGER SPACING (FT) LOAD IN (PSF)

OUTRIGGER SPACING (METERS) LOAD IN PASCALS (PA)

LOAD IS A COMBINATION OF ALL APPLIED LOADS, SUCH AS WIND, SNOW, ICE, ETC. ACTING PERPENDICULAR TO THE BLADE. CHARTS HAVE BEEN ADJUSTED TO ACCOUNT FOR THE DEAD LOAD OF THE BLADES AND OUTRIGGER.

CURVE NOTES:
LINES BECOME DASHED WHERE SPECIFIC BLADES LIMIT LOAD CAPACITY.

ALLOWABLE DEFLECTION IS BASED ON L/120.

CURVES SHOWN REPRESENT THE ALLOWABLE LOADING AT BOTH INTERMEDIATE AND CORNER CONDITIONS.

CENTER LINE TO CENTER LINE OF MULLIONS = (OS) + 0.938” (1600 System™5, 1600UT System™1)

A - 30” or 36” OUTRIGGER with
CIRCULAR BLADE 482010 or
SQUARE / DIAMOND BLADE 494011
D - PLANAR BLADE 494007
C - ARCH BLADE 494006
D - FLARE BLADE 494008
E - WAVE BLADE 494010
F - INFINITY BLADE 494009
G - AIRFOIL BLADE 494005

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Versoleil™ SunShade - Outrigger System
LOAD CHARTS - CURTAIN WALL

1600 Wall System™5 and 1600UT System™1 (With 1” Double Glazed Infill)

OUTRIGGER SPACING (FT) LOAD IN (PSF)

OUTRIGGER SPACING (METERS) LOAD IN PASCALS (PA)

LOAD IS A COMBINATION OF ALL APPLIED LOADS, SUCH AS WIND, SNOW, ICE, ETC. ACTING PERPENDICULAR TO THE BLADE. CHARTS HAVE BEEN ADJUSTED TO ACCOUNT FOR THE DEAD LOAD OF THE BLADES AND OUTRIGGER.

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CENTER LINE TO CENTER LINE OF MULLIONS = (OS) + 0.938” (1600 System™5, 1600UT System™1)

A - 30” or 36” OUTRIGGER with
CIRCULAR BLADE 482010 or
SQUARE / DIAMOND BLADE 494011
D - PLANAR BLADE 494007
C - ARCH BLADE 494006
D - FLARE BLADE 494008
E - WAVE BLADE 494010
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