Bend the Rules of Lighting Design with VentoFlex Tiles

For architects and lighting designers with the highest standards, VCC VentoFlex modular lighting system opens up countless ways to make an impact. Featuring a flexible PC board, VentoFlex delivers seamless backlighting, even in challenging interior spaces.

1. VentoFlex Tile
2. VentoFlex Power Cable
3. VentoFlex Bridge Cable
4. VentoFlex Jumper Cable
5. Driver (Not Included)

Features

- Connect up to 10 or 15, 12"x12" VentoFlex LED tiles on a Class 2 LED Driver
- Dimmable to 1% using any 0-10V/DALI signal
- LEDs: 144 Luxeon™ CRI>90
- Color Temperatures: 2200K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K
- Viewing Angle: 140 degrees
- Luminous Flux = 828lm per square foot
- Luminous Efficacy = 96 lumens/watt (8.6W per tile)
- Material: Flexible Copper Clad Laminate (FCCL) PC board
- Mounting method: Staples/Nail/Screw/Double Sided tape
- Tool-less snap connectors
- Modular Connection: Snap buttons, jumper, or bridge cables
- Operating temperature -13°F - 140°F
- Suitable for dry and damp locations
- TM-21 L70 > 60,000 hr
- Class 2 input only
- Works with any 48VDC output LED Driver
- 5 Year warranty
No hot spots, just unstoppable versatility.

VentoFlex Flexible Copper Clad Laminate (FCCL) tiles can be mounted directly to most any non-conductive interior surface with no requirement for a heat sink. If it needs to be mounted on a conductive surface, contact VCC for more information. Featuring 90 CRI Luxeon™ LEDs in a wide range color temperatures, VentoFlex tiles provide seamless uniform illumination of luminous surfaces at setback distances as low as 2 inches.

Versatile

Lighting design without compromise

Ambient lighting is all about creating the right mood. VentoFlex helps designers set the exact tone and aesthetic they intended. With VentoFlex, lighting design is no longer limited by flat surfaces — the flexible tiles can contour to fit most any curved surface up to 90 degrees and beyond.

Customizable

Cut. Shape. Wow.

Available in 12”x12” tiles, these innovative LED tiles can be cut and formed around any design element, including rounded corners and tight spaces without taking up much room at all — 0.15” (3.81mm). A pair of scissors is the only tool required to cut VentoFlex tiles to the size and shape you desire.

Modular

Impact that goes on and on

VentoFlex can link up to 10 or 15, 12” x 12” tiles to one Class 2 LED Driver, all on the same 0-10V or DALI dimmer. That’s 1440 or 2160 square inches of versatile lighting power! When connecting tiles together, the cables don’t have to physically touch each other, enabling even more design flexibility.

Applications

Create awe-inspiring illumination for:

- Ceilings
- Backlit signs
- Museums and galleries
- Restaurants
- 3D installations
- Bars and countertops
- Lobbies
- Retail spaces
- Decorative walls and panels
Overview

Specifications

Location
Indoor, dry and damp location only

Operating Voltage
48 VDC

Electrical Connections
Tool-less snap connectors

Base Material
Flexible polymide

Mounting
Mount to any non-conductive surface

LED Specifications

Color Rendering Index (CRI)
>90, R9>50

Lumen Maintenance
TM-21 L70 > 60,000 hr

Viewing angle
140 degree viewing angle

Power

Input Voltage
48VDC

Dimming
Dimming is possible depending on the driver

Wattage
5.8watt, 8.6watt

Efficacy
119lm/W, 96lm/W (See efficacy table)

Photometric

Light output (lm) per sheet
662, 828

Color Temp
2200K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K

Efficacy Table

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<tr>
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<th>2200K</th>
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<th>3500K</th>
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<td>Lumen (9w)</td>
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### Ordering Instructions

#### VentoFlex Tile

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Type of Cut</th>
<th>Cut Size</th>
<th>Wattage</th>
<th>LED Type</th>
<th>Color Temperature</th>
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<tr>
<td>VFT</td>
<td>S</td>
<td>12N</td>
<td>06</td>
<td>S</td>
<td>22K</td>
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</tbody>
</table>

- **VFT** | VentoFlex | Square | 12N | 12” x 12” | 06 | 6W | Static White | 22K | 2200 Kelvin
- **VFT** | VentoFlex | Horizontal | H | 12N | 12” x 12” | 09 | 9W | Static White | 27K | 2700 Kelvin

**Part Number** | **Description**
--- | ---
| VFTS12N06S35K | VentoFlex Square 12” 6W Static White 3500 Kelvin

**NOTE:** 06W: Up to 15 tiles with Class 2 LED Driver | 09W: Up to 10 tiles with Class 2 LED Driver

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#### VentoFlex Cable

<table>
<thead>
<tr>
<th>Product Category</th>
<th>Accessory</th>
<th>LED Type</th>
<th>Polarity</th>
<th>Length</th>
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<td>VFT</td>
<td>PC</td>
<td>S</td>
<td>P01</td>
<td>02FT</td>
</tr>
</tbody>
</table>

- **VFT** | VentoFlex | Static White | P01| Positive (+) Red PC/BC | 02FT | 2 ft**
- **VFT** | Jumper Cable | No Polarity | N10 | Negative (-) Black PC/BC | 03FT | 3 ft**
- **VFT** | Bridge Cable | Can be + or - | N04 | No Polarity White | 10FT | 10 ft*

**Part Number** | **Description**
--- | ---
| VFTPCSP0110FT | VentoFlex Power Cable Static White Red 10ft

* Power cable (VFTPCSP01 and VFTPCSP01) are only available 10 or 20 ft cable length
** Jumper and Bridge cable (VFTJCSN04, VFTBCSP01 and VFTBCSN10) are only available 2 or 3 ft cable length
**Installation Instructions**

**Trimming Tiles**
- VentoFlex tiles may be cut with scissors, shears or knife at specific lengths unique to each tile design.
- ONLY cut VentoFlex tiles along the dotted lines indicated on the tile.

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**Square Tile**

- Do not cut out this area.

**Horizontal Tile**

- Do not cut this area.

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**Clean cut**

**Overcut**
Installation Instructions

Handling Instructions

- Avoid creasing or repeating bending of VentoFlex tiles.
- VentoFlex tiles are flexible. Do not bend sheets to a diameter of less than 2 inches (50.8 mm)
- Do not scrape, rub, or excessively wipe the conductive area between the borders of the tile
- Handle sheets only by the borders
- Only mount sheets at mounting locations indicated on the tile - DO NOT puncture the active area of the tile
- Fasteners should be appropriate for the mounting surface
- Mount only to non-conductive interior surfaces
- If using foam tape, apply only along the borders of each tile

Warranty

This product has a warranty period of 5 Years. Warranties may be available on certain products as indicated in the product description. Warranties are valid from the date of purchase. The warranty is invalid in the case of improper use, installation, tampering, removal of the Q.C. date label or installation in an improper working environment or installation. Should this product fail during the warranty period it will be replaced free of charge, subject to the correct installation of the original product and subsequent return of the faulty unit. VCC does not accept responsibility for any installation costs associated with the replacement of this product and VCC reserves the right to alter specifications without prior notice.