

COOLEGE™

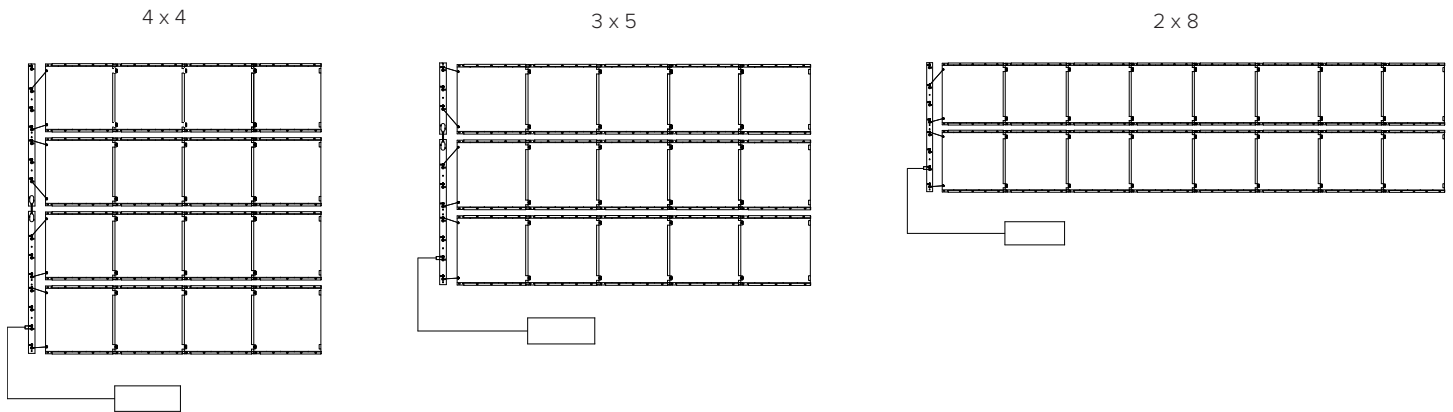
OVERVIEW

The TILE Quick Kit contain all of the components required to illuminate a surface up to 16 sqft (1.4 sqm).

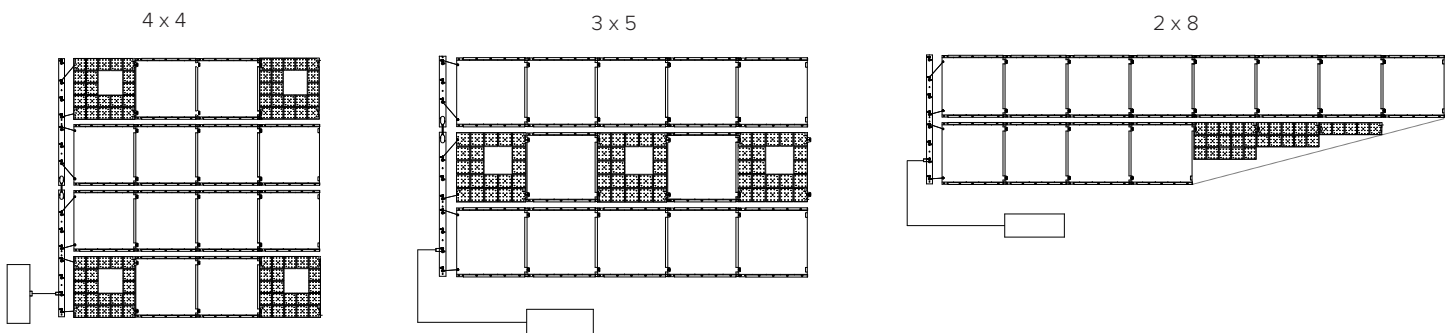
2 Types of TILE Quick Kit:

1. **Basic:** for use where no obstacles are present and the shape is rectilinear (square or rectangle)
2. **Configurable:** for use with obstacles and/or where angles/curves require the ability to cut TILES in two directions

1. REFERENCE LAYOUTS - BASIC

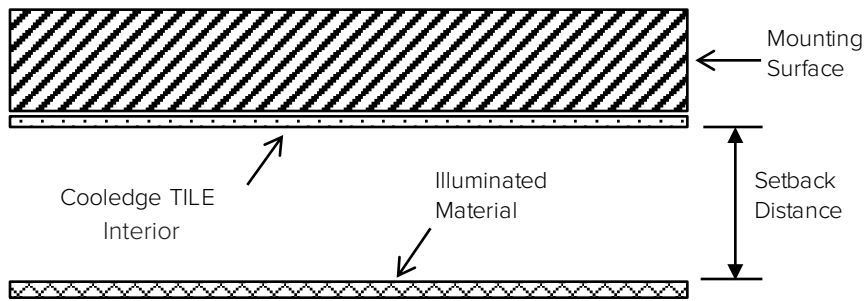


2. REFERENCE LAYOUTS - CONFIGURABLE



ENSURING UNIFORM LIGHT: SETBACK DISTANCE

- To ensure that the light appears uniform when transmitted through the illuminated material without dots, hot spots, or shadows a minimum spacing between the Coolege TILES and the illuminated material – the minimum setback distance – is required.
- The minimum setback distance is dependent upon the light transmission properties of the illuminated material and the thickness of the material.
- As it is not possible to provide recommendations for every material, the following table provides reference examples to act as a guideline. Coolege recommends checking that the setback distance is suitable for the specific material being illuminated prior to installation.



REFERENCE GUIDE

Example Material	Thickness	Minimum Recommended Setback
White Acrylic “2447”	1/8” (3mm)	3” (75mm)
White Acrylic “2447”	1/4” (6mm)	2.5” (63mm)
White Acrylic “7328”	1/8” (3mm)	2.5” (63mm)
White Acrylic “7328”	1/4” (6mm)	2” (50mm)
White Polycarbonate	1/8” (3mm)	3” (75mm)
Silicon Edge Graphic (SEG)	Fabric	4” (100mm) >> lower setback may be possible for some materials and colors
Translucent Stone (eg. Onyx or other)	N/A	Material dependent >> setback may be very low for darker or thicker material – test recommended prior to installation
Frosted Glass	N/A	Dependent on the degree of surface treatment – test recommended prior to installation
Clear Glass	N/A	Should use a white diffuse coating or acrylic layer

LOCATING LED DRIVERS: MAXIMUM REMOTE MOUNTING DISTANCES

- The TILE Quick Kit includes a 90W constant voltage LED driver that converts AC mains (line) power to safe, low voltage (58V) DC power to operate the TILE Interior system.
- The LED driver may be located at a distance from the illuminated area that is dependent on the specific configuration of the TILES and the size of the cable carrying the power between the driver and Connector Strip that acts as a busbar for the system.
- One (1) TILE Interior Starter Cable (10’/3m) is included in the kit. To locate the drivers at a distance greater than 10’/3m an additional cable (not included) may be joined to the Starter Cable using a locally approved connection method. The following table indicates the maximum distance based on cable size.

REMOTE MOUNTING DISTANCE (ft)

- values are for cable lengths in addition to the 10’ Starter Cable

Conductor Size (AWG)	TILE Configurations		
	4 x 4	3 x 5	2 x 8
16	22	24	17
14	36	38	27
12	57	60	43
10	91	96	69
8	145	153	110
6	230	244	175

REMOTE MOUNTING DISTANCE (m)

- values are for cable lengths in addition to the 3m Starter Cable

Conductor Size (mm2)	TILE Configurations		
	4 x 4	3 x 5	2 x 8
1.3	7	7	5
2.1	11	12	8
3.3	17	18	13
5.3	28	29	21
8.4	44	47	34
13.3	70	74	53

INSTALLATION TIPS

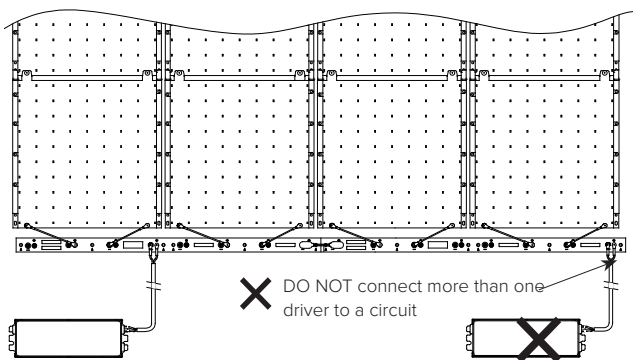
- Marking the mounting locations of each run of TILES will allow you to identify if there may be a dark strip along one edge where no TILE materials can be mounted and adjust the layout accordingly. When the setback distance is low, small voids in the TILE coverage along one edge may show up as a shadow.

WHAT NOT TO DO:

Connect 2 LED Drivers to the Same Circuit

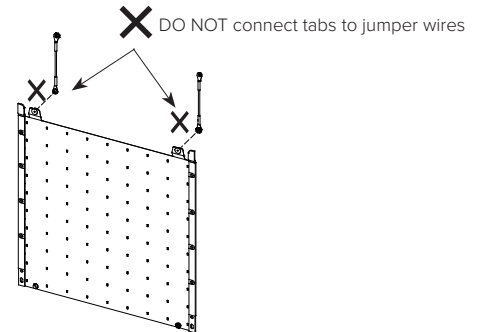
If using two or more TILE Quick-Kits to illuminate an area larger than 16 sqft/1.4 sqm, ensure that...

- The LED drivers are not connected to the same Connector Strips
- or
- More than two Connector Strips are connected to each other



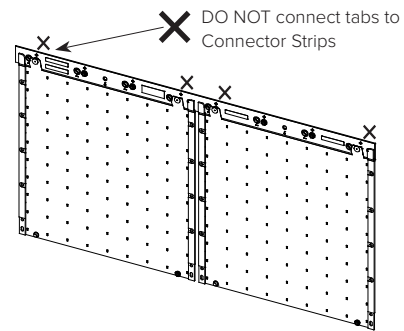
Connect Jumper Wires to TILE Tabs

Tabs are only for connections to other TILES



Connect Connector Strips to TILE Tabs

Tabs are only for connections to other TILES



TROUBLESHOOTING

1. If a single LED of portion of a TILE Interior does not illuminate or illuminates intermittently: The TILE is likely damaged; remove and replace the TILE if possible. Contact Cooledge.
2. If a whole TILE Interior sheet does not illuminate or illuminates intermittently
 - a. Check the input (tab end) electrical connections
 - b. If the TILE still does not illuminate, remove and replace if possible. Contact Cooledge.
3. If one run of TILE Interior sheets does not illuminate or illuminates intermittently
 - a. Check the power connection between the Starter Cable harness and the first TILE in the run
 - b. If the run still does not illuminate, replace and contact Cooledge.
4. If the final portion of a run of TILE Interior sheets does not illuminate or illuminates intermittently
 - a. Check the electrical connection between the last TILE that illuminates correctly and the first one showing the issue
 - b. If the run still does not illuminate, replace the first TILE of the defective section with another TILE and re-test.
 - c. If the run still does not illuminated contact Cooledge.
5. If all of the TILE Interior sheets connected to one Driver do not illuminate or illuminate intermittently
 - a. Check the electrical connection between the Driver and the Starter Cable, and any splices made in the cable, and re-test
 - b. If possible, swap the driver with another and re-test
 - c. If the TILES still do not illuminated contact Cooledge.
6. If the entire installation does not illuminate or illuminates intermittently; The issue is most likely with the AC power supply to the drivers. Check the breakers and verify the correct AC voltage at the input side of the driver(s)