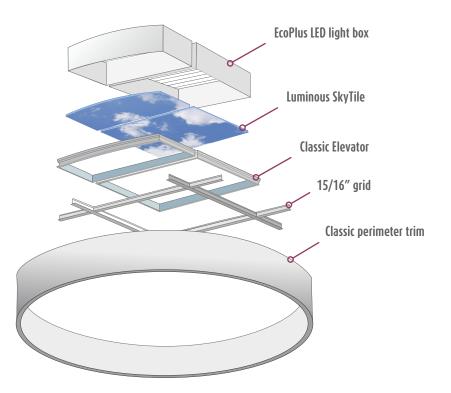


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Inifinity w/ EcoPlus Installation Instructions (INF-4 Only)

Installation Packet Includes:

Infinity w/ EcoPlus Installation Instructions (INF-4 Only) One of three Custom EcoPlus Electrical Packets Custom EcoPlus Electrical Packet (24PS HLG) Custom EcoPlus Electrical Packet (HLG) Custom EcoPlus Electrical Packet (Fixture Only) Luminous SkyTile Installation SkyTile Layout Grid Plan GR1 Grid Plan GR2 Electrical Layout EL1 Electrical Layout EL2 Grid Detail DE2 (INF-4 Only) Grid Detail DE3-5 (INF-4 Only)



Restraint/sesimic bracing not provided. For recommendations, see Appendix A on page 23.

If any of these documents are missing, please contact Sky Factory for replacements before beginning installation.

<u>Important</u>: All subcontractors involved must have a copy of these specifications. All specifications must be followed in all stages of on-site manufacture or installation or warranty may be voided. Any deviation in the installation specifications may alter the final product and could result in a major increase in cost. Please review all documents enclosed before installation.

For technical support at any time during the installation, please call us **toll free at 866-759-3228.** We want your installation to go as smoothly as possible. Thank you for choosing Sky Factory.

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Installation Requirements

Tools and Parts

Tools Provided:

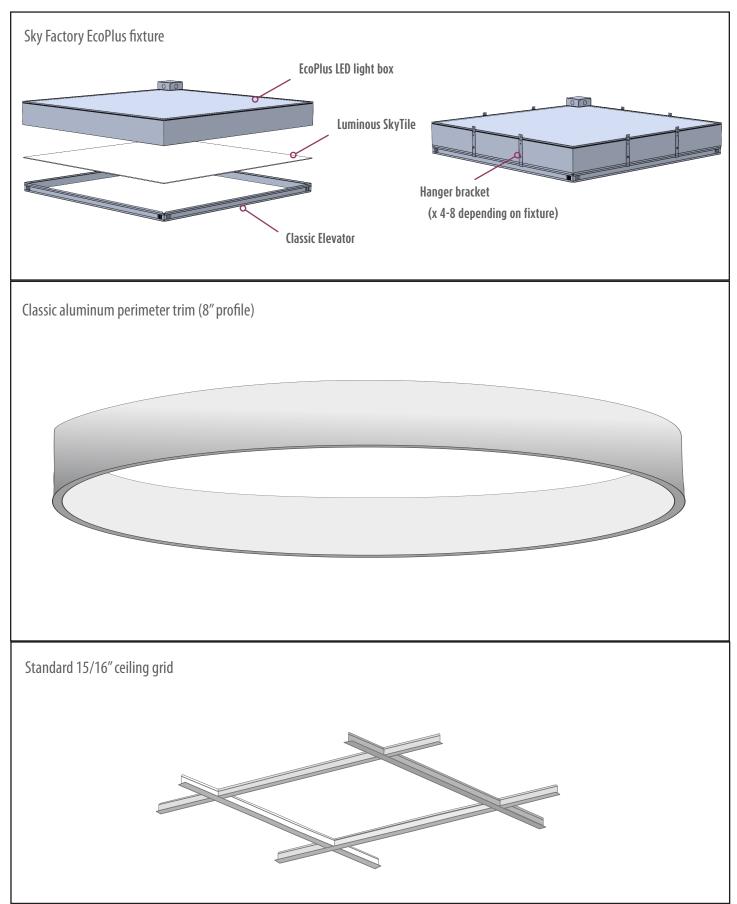
3/32" hex wrench 11/32" nut driver

Tools Needed:

Tools to assemble installation below ceiling Tools to install suspension system from building structure 1/8" or 9/64" and 11/64" or 3/16" drill bits Cordless drill/driver and blind rivet tool Pliers, hammer, screwdrivers, measuring tape, level and other hand tools Tools for installing electrical and running conduit (where required)

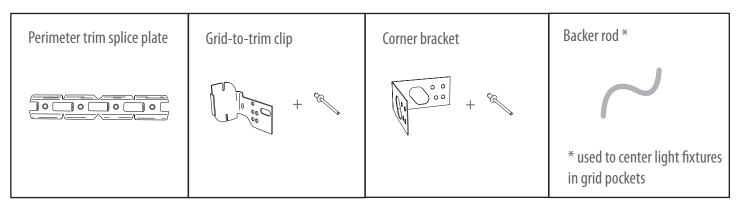
Parts Provided:

Main Components

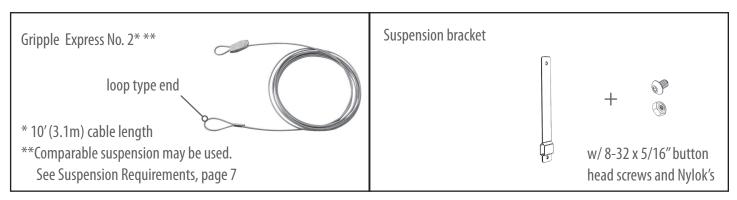


Parts Provided (cont'd):

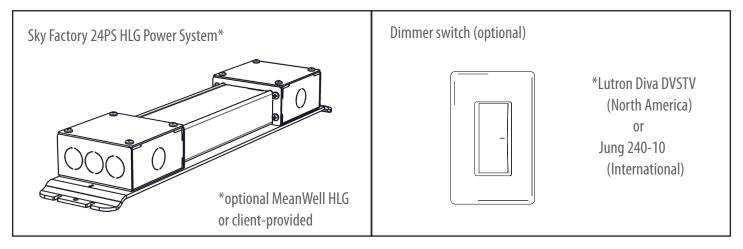
Perimeter/grid/fixture hardware





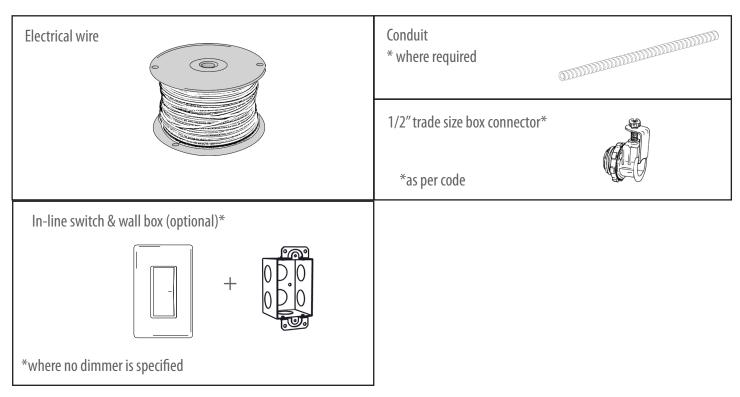




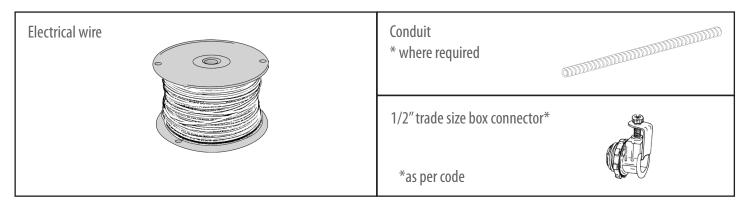


Parts Needed:

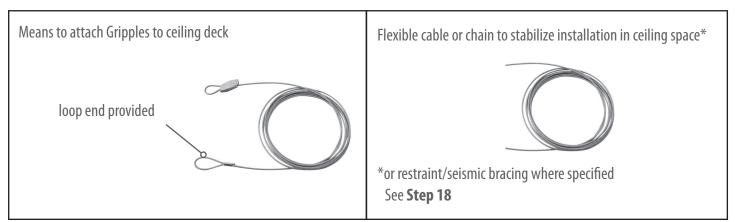
for AC Source power



for DC power



for suspension



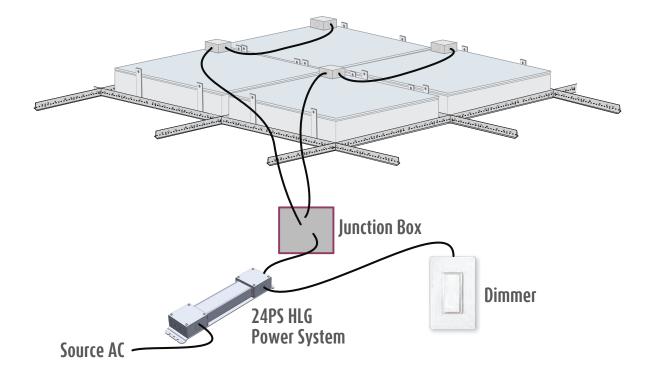
Location Requirements

Infinity w/ EcoPlus SkyCeiling requires selecting a location for the following components:

SkyCeiling
Dimmer or in-line power switch
HLG 24PS power system

SkyCeiling

- a minimum of 9' (2.75m) from floor to bottom of SkyCeiling recommended
- a minimum of 6" (15cm) from finished ceiling to top of SkyCeiling recommended
- suspension anchor points must meet local and national codes
- must be dry and accessible for periodic cleaning



Power system

- must be dry, dust-free and accessible for periodic cleaning
- SkyFactory 24PS HLG shown

Dimmer

- wall box not provided
- Lutron Diva dimmer shown

Suspension Requirements

Fixture Suspension

Suspension system (provided) which receives Gripple Express #2 (provided) anchored to building structure:

See drawings GR1 and GR2 and cross sections DE2 and DE3-5 included.

Suspension anchor points not provided and must meet local and national codes

Alternate means to hang suspension system from building structure anchor points, if used, must meet local and national codes. SkyCeiling must be installed level

<u>Assembling SkyCeiling in position recommended.</u> <u>Assembling smaller SkyCeilings on floor and mechanically lifting into position</u> <u>is an option; however, caution must be taken. Infinity perimeter is a trim system and cannot be excessively torqued.</u>

Most building codes require non-structural building components to be restrained. Sky Factory also recommends restraint in accordance with local building code requirements. Please consult with the building code professional having jurisdiction over the project to determine appropriate restraint requirements for this instllation. Restraints are not included in this kit.

SkyCeiling Dimensions and Weights

INF-4 8" (20.3cm) deep 4' 3 1/8 (129.9cm) outside diameter 51 lbs (23.2kg); 13lbs (5.9kg) per suspension point

Electrical Requirements

At 24V DC:

INF-4@3.4A,80.5W

See one of three electrical packets:

Custom EcoPlus Electrical Packet (24PS HLG),

Custom EcoPlus Electrical Instructions (HLG), or

Custom EcoPlus Electrical Instructions (Fixture Only)

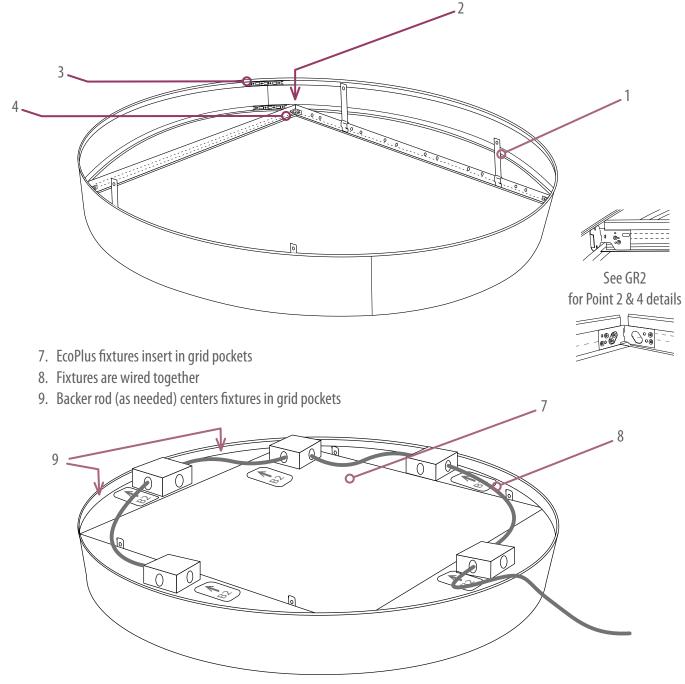
Electrical work must be performed by a qualified electrician who is familiar with DC lighting systems and must conform to all local and national codes.

SkyCeiling Suspension and Fixture Details

IMPORTANT: Assembling SkyCeiling in position is highly recommended. Perimeter is a trim system only. Assembled SkyCeiling cannot be excessively torqued.

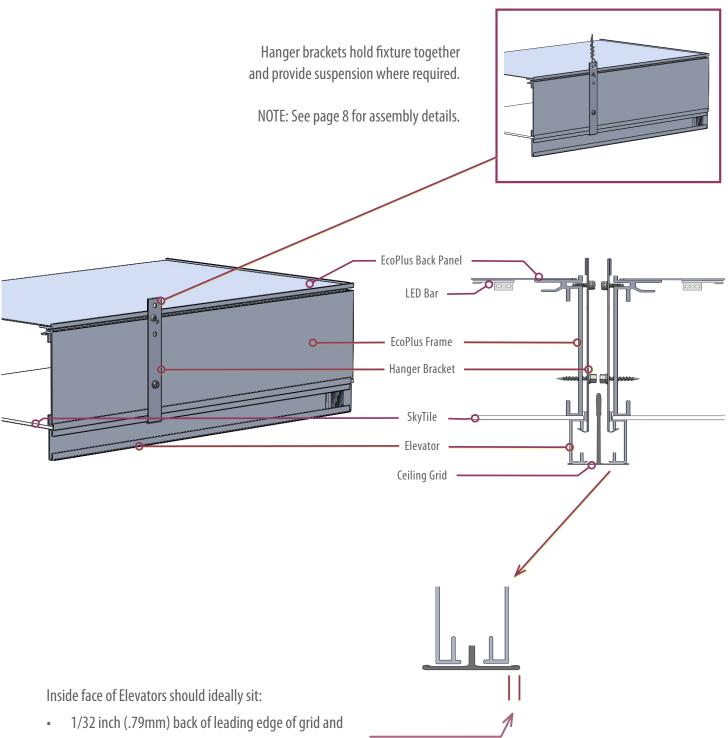
NOTE: Gripple suspension cables removed for clarity

- 1. Mains suspend from building structure with suspension brackets
- 2. Trim attaches to ends of mains with grid-to-trim clips
- 3. Trim is joined with splice plates
- 4. Cross tees attach to mains with corner brackets



NOTE: Gripple suspension cables removed for clarity

EcoPlus components:

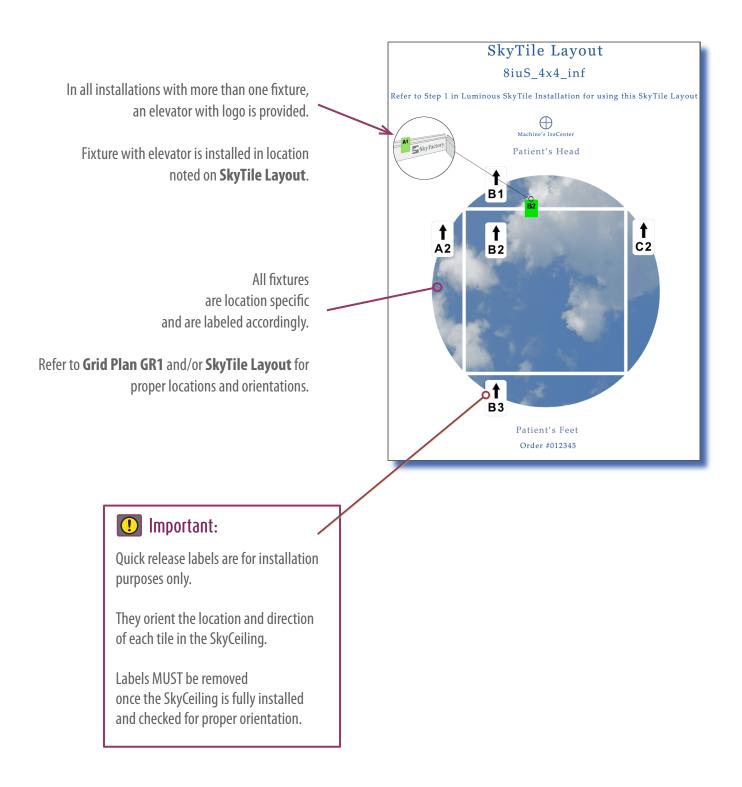


• 1/32 inch (.79mm) to 1/16 inch (1.59mm) back of leading edge of curved perimeter angle.

Fixture and SkyTile Orientation

Fixtures MUST be installed so SkyTiles fit SkyTile Layout. See **SkyTile Installation Instructions** and **SkyTile Layout** included.

To facilitate correct SkyTile placement, fixtures are labeled on top of backpan and on SkyTile:



Step 1: Plan for electrical

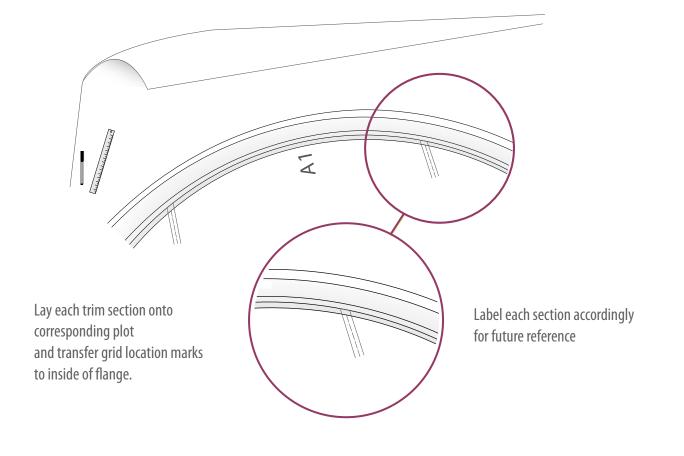
• See Location Requirements on page 6 and Custom EcoPluS Electrical Packet provided

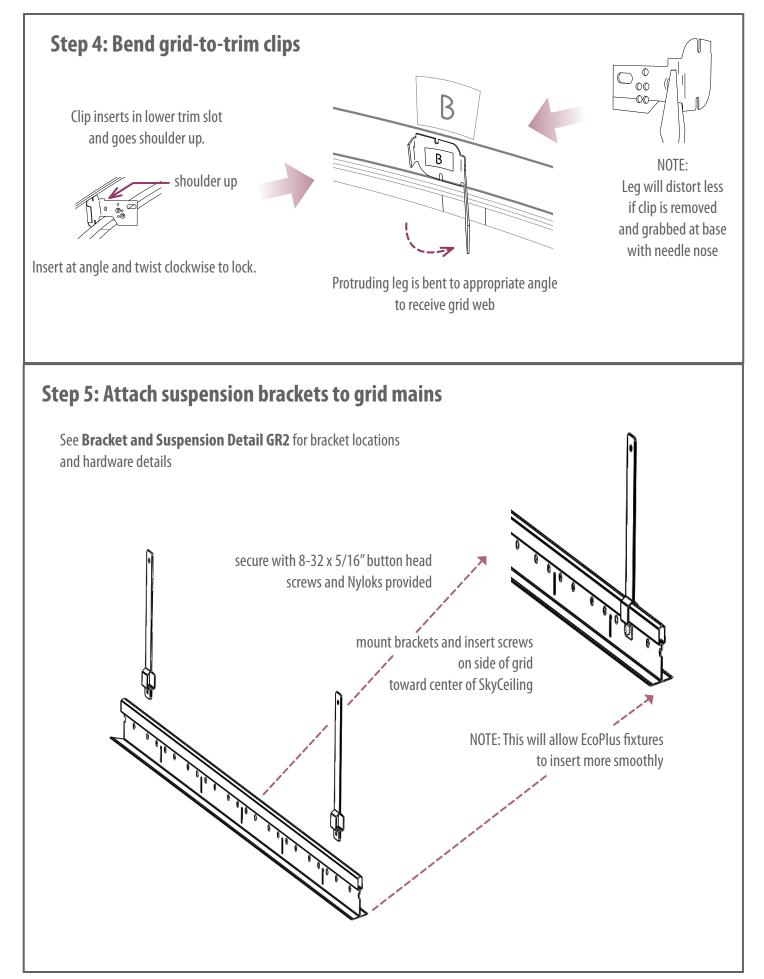
Step 2: Determine SkyTile orientation

- See page 10
- IMPORTANT: Be sure to orient the fixtures following the **SkyTile Layout** sheet. If the SkyTiles are improperly oriented, the fixture or fixtures will have to be removed from the SkyCeiling so the SkyTile can be properly oriented.

Step 3: Transfer grid locations to perimeter trim flange

NOTE: Curve of trim section may not be even and follow template; if not, gently bend to conform to curve on template. This will expedite grid and fixture installation in Steps 9-13.





Step 6: Attach suspension cables to building structure*

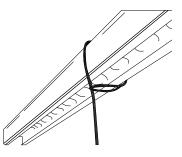
See:

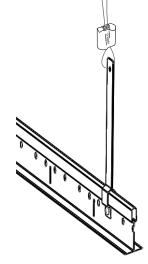
- Bracket and Suspension Detail GR2 for SkyCeiling suspension points
- Suspension Requirements on page 7 for SkyCeiling weights
- **Gripple Express No. 2** installation sheet on page 20.
- Alternate means to hang suspension system, if used, must meet local and national codes.

Step 7: Hang grid mains

See **Bracket and Suspension Layout GR2** for suspension points and **Gripple Express No. 2** installation sheet on page 20.

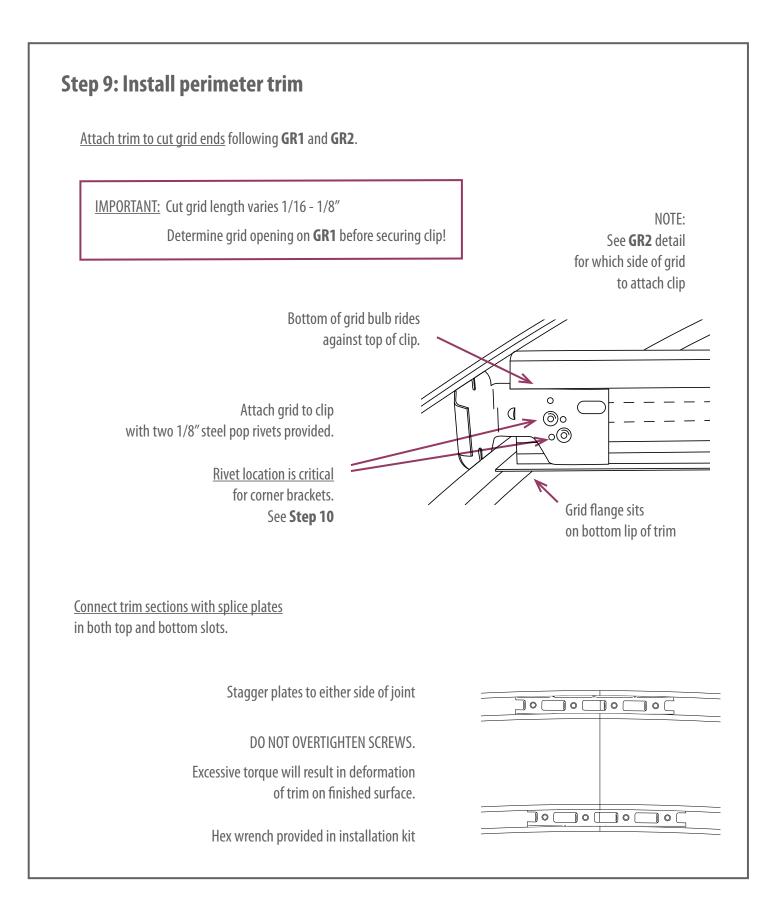
Alternate means to hang suspension system, if used, must meet local and national codes.

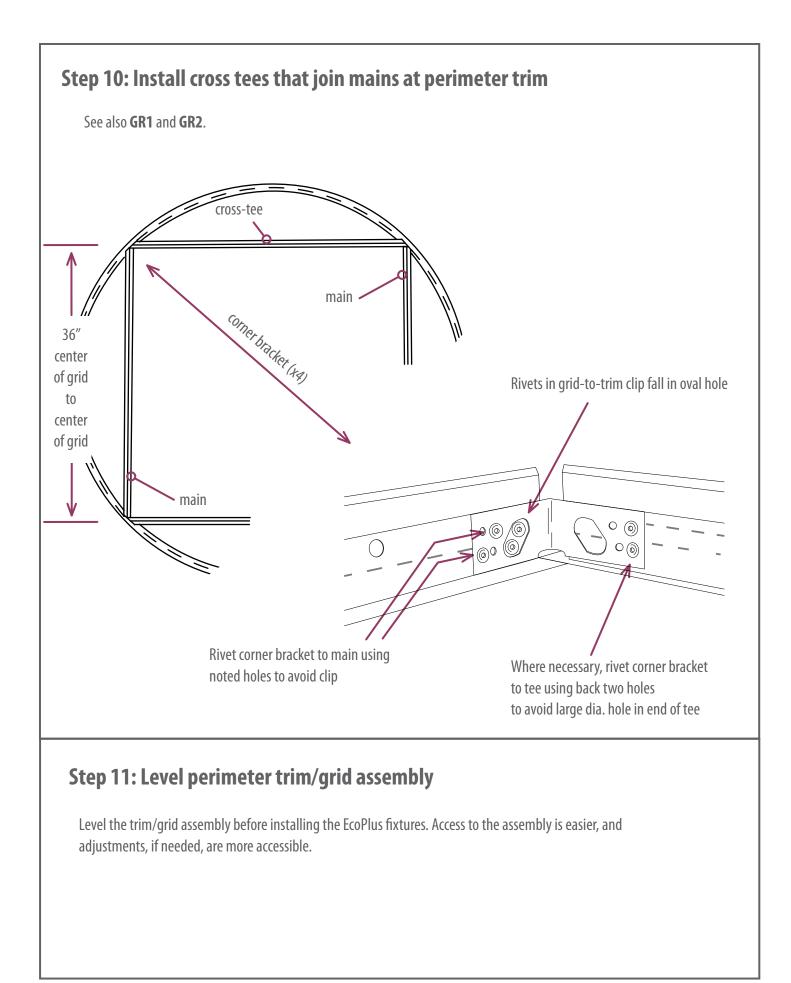


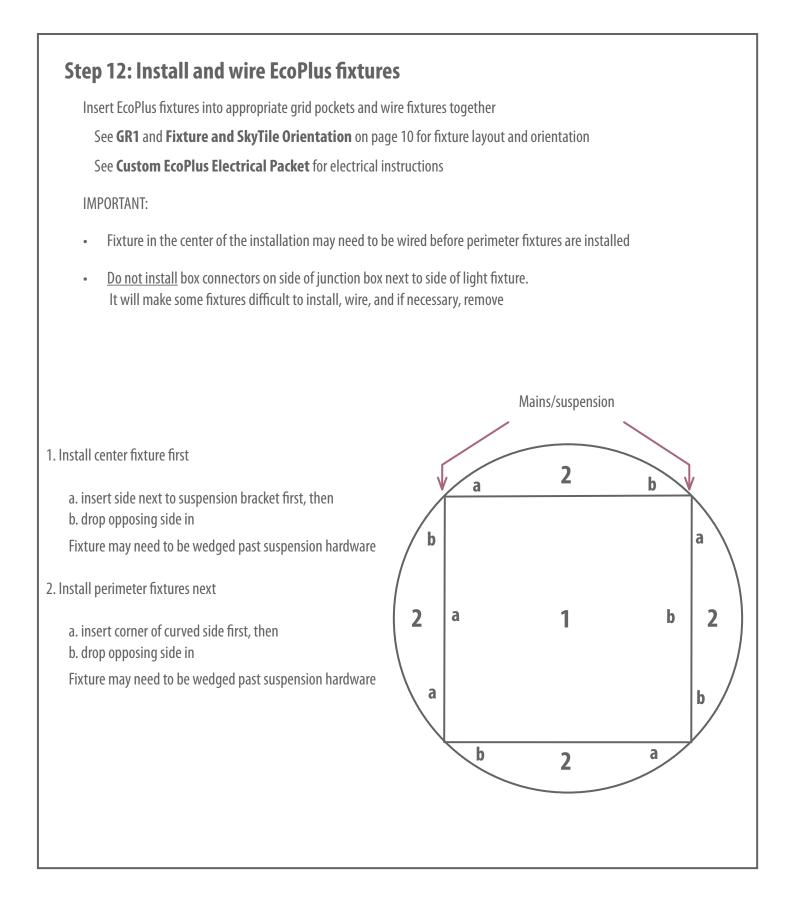


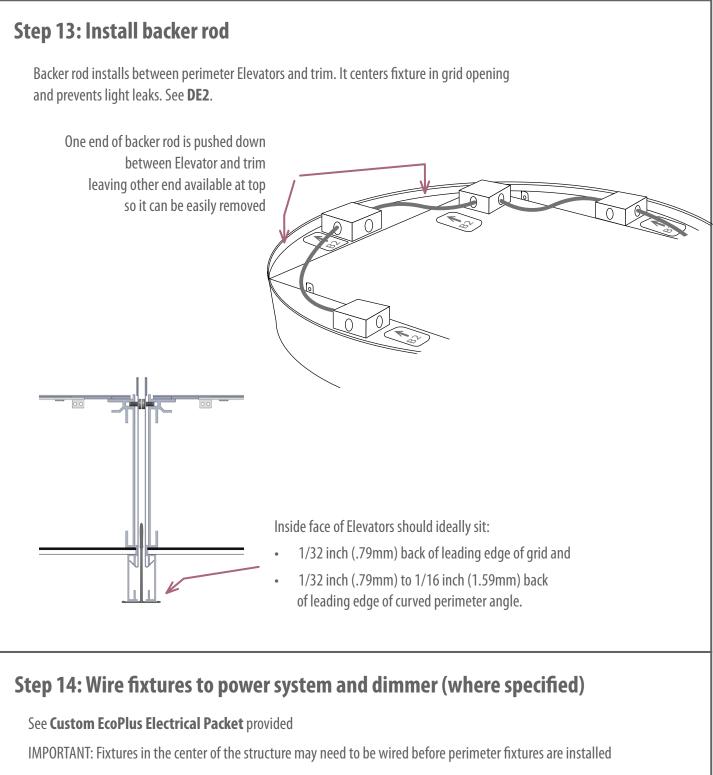
Step 8: Insert bent grid-to-trim clips into perimeter trim slots

For insertion and bending details, see Step 4

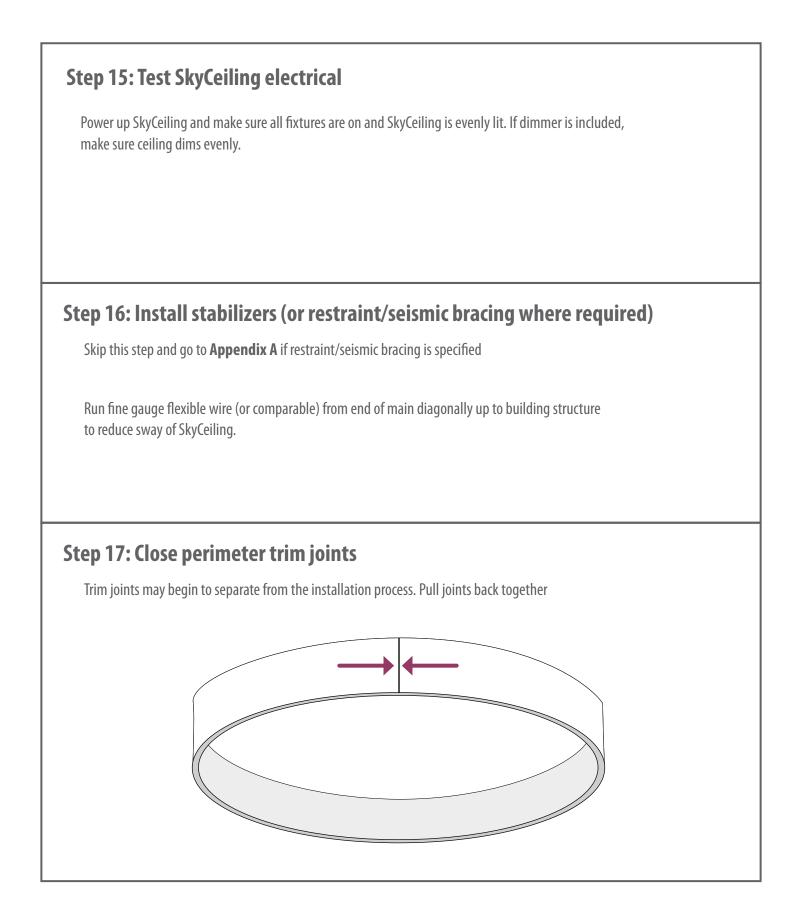








Install all electrical in accordance with local and national codes.



Final Inspection List

Are all the fixtures seated down against the grid flange?

• If fixtures are not seated down against the flange, light leaks could result.

In grid ceiling applications, do all the fixtures sit evenly in the grid?

- If not, Elevator alignment may need adjusting.
- If grid is not installed square, fixtures may sit unevenly in the opening. If so, adjust grid so it is square.

Do all the fixtures sit evenly next to one another?

• If not, Elevator height or side to side position may need to be adjusted.

Is the image evenly lit?

- If there are shadows, dark spots, or bright lines on the image, clear off the back of the SkyTile.
- If one or more SkyTiles are dark, one or more fixtures are not working. Re-check wiring.

Does the SkyCeiling image match the SkyTile Layout image?

• Make sure the tiles are in the correct position and orientation. If the SkyTile Layout has a head location, make sure the SkyCeiling is properly oriented in the room. If not, they should be reinstalled.

Have the arrow-labels been removed once the image has been verified? If not, remove them now.

• Quick release labels MUST be removed once the SkyTiles are fully installed and checked for proper orientation.

Care and Maintenance

- Avoid scratching SkyTiles and Elevators when cleaning.
- Once installed, SkyTiles and Elevators can be cleaned in place.
- Use mild soap and water solution, and a soft, non-abrasive cloth.
- DO NOT wet edges of SkyTiles. Water may cause image film to de-laminate.

Gripple Express No.2

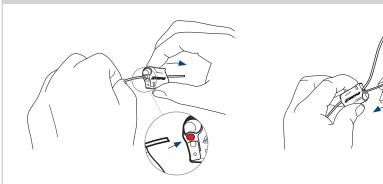


A push-button Gripple fastener solution for quick and easy suspension and height adjustment of light fixtures, signage, HVAC, mechanical, and electrical services, without the need for a release key.

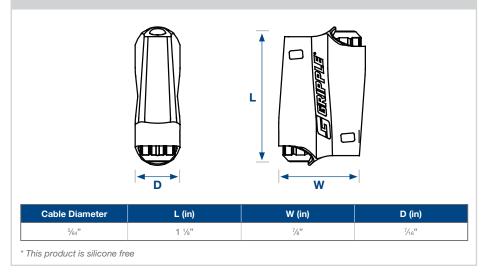
ADVANTAGES

- · Up to 6 times faster to install than traditional methods
- · Keyless no tool required for adjustment
- · Ergonomic buttons allow rapid adjustment
- Discreet and aesthetic design
- Load rated at 100 lbs with a 5:1 safety factor
- · Supplied as a ready-to-use kit

INSTALLATION



PRODUCT DIMENSIONS



Gripple Inc | 1611 Emily Lane | Aurora, IL 60502 | USA Tel +1 866 474 7753 Fax +1 800 654 0689 email usinfo@gripple.com www.gripple.com

PI-47-USA



END FIXING

RELEASE



Each ready-to-use kit comes with an end fixing of your choice. Standard hanger lengths are available in 5ft to 30ft lengths; other lengths available upon request.

For further detailed information on any of our end fixings, please visit our website or contact us using the information below.

Appendix A: Restraint/Seismic Bracing

Most building codes require non-structural building components to be restrained. Sky Factory also recommends restraint in accordance with local building code requirements. Please consult with the building code professional having jurisdiction over the project to determine appropriate restraint requirements for this instillation. Restraints are not included in this kit.

Restraint for Infinity installations where anticipated seismic activity will be light (IBC seismic design categories A & B) can be accomplished by installing a pair of crossed cables 2' in from each edge of the assembly. These cables should attach to the support beam and be sloped no more than 45° from horizontal.

In areas where anticipated seismic activity will be moderate to severe, the crossed cables should be replaced with a bracing system more appropriate for the forces that will be encountered.

Testing conducted at the Structural Engineering Earthquake Simulation Laboratory, located at the State University of New York - Buffalo campus, produced satisfactory results with rigid bracing fabricated from 1/2" EMT conduit.

The tested bracing system consisted of a vertical member extending from the support beam to the structure above near each corner of the cloud. These members were positioned at the main beam/support assembly. Two additional members were fastened to the bottom of the vertical and extended to the structure at an angle not exceeding 45° from horizontal. These members were parallel to the sides of the cloud.

Restraint/bracing systems should be approved by the project design team and reviewed with local building department.