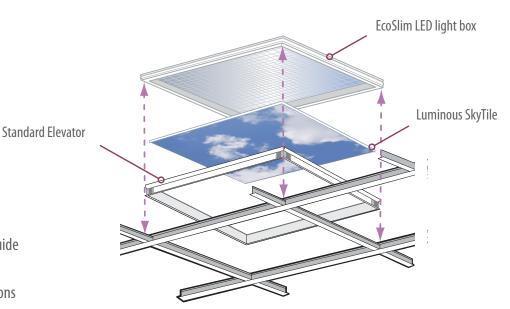
www.skyfactory.com

toll free 1.866.759.3228

Standard w/ EcoSlim Installation Instructions



Installation Packet Includes:

Standard EcoSlim SkyCeiling QuickStart Guide

Standard w/ EcoSlim Installation Instructions

Drop Ceiling and Soffit Cross-Sections included on pages 10 - 13 Custom SkyCeiling Grid Plan GR1 (where applicable)

One of four electrical instructions:

- Standard w/ EcoSlim Electrical Packet (24PS HLG)
 Standard w/ EcoSlim Electrical Instructions (24PS HLG)
 EcoPlus and EcoSlim Drawings and Charts (24PS HLG)
- Standard w/ EcoSlim Electrical Packet (TSF)
 Standard w/ EcoSlim Electrical Instructions (TSF)
 EcoPlus and EcoSlim Drawings and Charts (TSF)
- Standard w/ EcoSlim Electrical Instructions (HLG)
- Standard w/ EcoSlim Electrical Instructions (ES Only)

Luminous SkyTile Installation and SkyTile Layout (included with the SkyTiles)

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 The Sky Factory.

Standard w/ EcoSlim Specifications:

Ceiling Grids

Each fixture is built specifically for one of these standard ceiling grid systems:

ES22 Series ES22 - 2′ x 2′, 15/16″ **ES22M** - 60cm x 60cm, 24mm **ES24 Series ES24** - 2′ x 4′, 15/16″ **ES24M** - 60cm x 120cm, 24mm **ES24G** - 62.5cm x 125cm, 24mm

IMPORTANT: ES22 Series cannot be grouped with ES24 Series fixtures.

NOTE: For custom sizes, see **Custom Applications** below

Ceiling Openings

Access above ceiling is required. Not for use in air handling areas. See Drop Ceiling and Soffit Cross Section drawings on pages 10 -13

Clearance

Must have at least 5 1/8" (130mm) of clearance from the bottom of the grid to the deck above. See Step 1 If not, call The Sky Factory for other options: 866-759-3228.

Runners and Spanners

Grid must be installed level and square

Grid Hanger Straps (provided) must be used to accomodate fixtures in grid pocket. See Step 2

For all 2'x 2', 60cm x 60cm, 62.5cm x 62.5cm ceiling grids, be sure all adjacent runners (mains) are not supported in the same opening or it may interfere with installation and removal of the fixture.

Fixture Suspension

Hanger brackets supplied to suspend fixtures from ceiling where required. See Step 3 and Step 5.

Custom Applications

For installations with one or more custom size fixtures, see also Custom SkyCeiling wiring diagram included (where applicable) with electrical instructions

For installations with custom soffit or grid openings, see also

Custom SkyCeiling Grid Plan GR1 included (where applicable) with installation packet

Electrical Requirements:

EcoSlim light box when used in conjunction with the Sky Factory 24PS HLG Power System

See Standard w/ EcoSlim Electrical Packet (24PS HLG)

EcoSlim light box when used in conjunction with the Sky Factory LSC 24PS Power System

See Standard w/ EcoSlim Electrical Packet (TSF)

EcoSlim light box when used with a Sky Factory provided HLG power supply

See Standard w/ EcoSlim Electrical Instructions (HLG)

EcoSlim light box when used with a client-provided UL Listed or CE Compliant power supply

See Standard w/ EcoSlim Electrical Instructions (ES 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.

Important! Before Starting

For standard 15/16" or 24mm ceiling grid without perimeter or edge angle: use "Standard EcoSlim Luminous SkyCeiling Drop Ceiling Cross Section" drawings on pages 10-11 as a reference and proceed with the installation instructions.

For standard 15/16" or 24mm ceiling grid with perimeter or edge angle: use "Standard EcoSlim Luminous SkyCeiling Soffit Cross Section" drawings on pages 12-13 as a reference and verify before beginning installation that the perimeter and/or soffit openings are the correct dimensions.

If your perimeter and/or soffit openings are not correct, please contact The Sky Factory before beginning the installation.

Step 1: Determine ceiling space and installation method

The clearance between the bottom of the ceiling grid and the deck above will determine how the fixture is installed

Measure the space above the grid:

For Option A, the fixtures can be assembled first and then inserted as one unit into the grid opening.

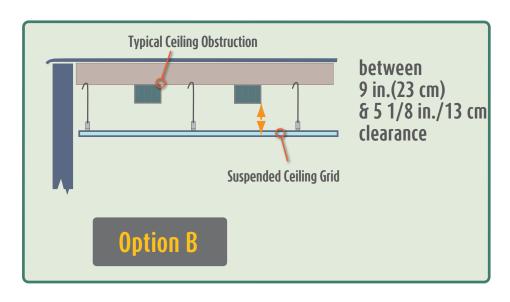
9 in.(23 cm) or MORE clearance

Option A

Option A

(NOTE: Option A and Option B details covered later in the Instructions.)

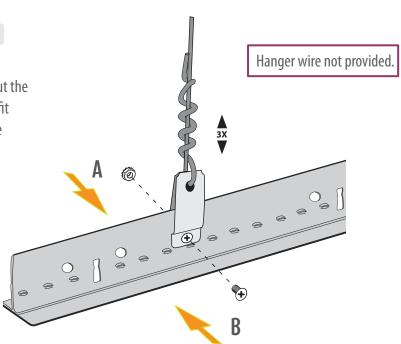
For Option B, the fixture may need to be installed one component at a time.



Step 2: Install grid hanger straps

Grid Hanger Straps allow the grid to be supported without the hanger wire interfering with the installation and proper fit of the EcoSlim fixture. Straps are designed to bend at the center, fold down over the top bulb of the runner and fasten through one of the holes in the grid. Use the enclosed 8-32 x 1/4" (6.35mm) undercut flat head machine screws and Keps nuts to secure it. Grid wire goes through the hole in the strap just below the fold.

Where possible, support the runners in the middle of openings for ease of fixture installation.

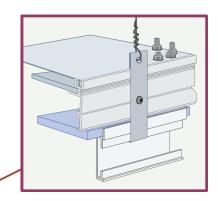


Note: Where possible, do not hang adjacent runners in the same 2' x 2', 60cm x 60cm, or 62.5cm x 62.5cm opening: installation of the fixtures may require one open side above the grid into which they can be temporarily inserted before dropping down into the grid pocket.

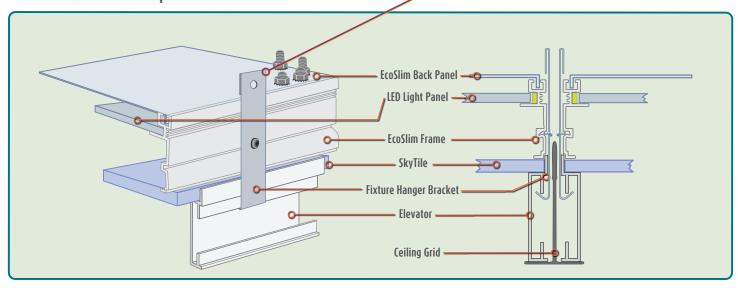
Step 3: Important details

Hanger brackets are provided which hold the fixture together and provide suspension where required.

NOTE: See page 7 for assembly details.



Standard w/ EcoSlim components:



Step 2: Determine the electrical layout

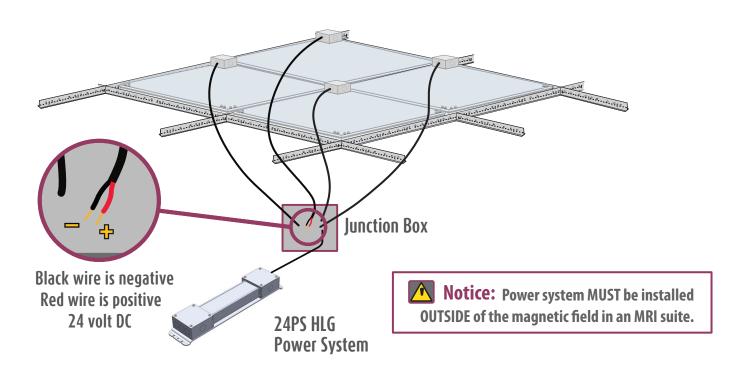
Accommodations for wiring must be made before the fixtures are installed. Refer to the Electrical Installation Instructions included with your packet.

All electrical work must conform to local and national codes.



Notice: The LED fixtures are 24DC ONLY.

AC voltage connected directly to the fixtures will destroy the lighting system.



Note:

- If you are using a Sky Factory 24PS HLG Power System, make sure you have Standard w/ EcoSlim Electrical Packet (24PS HLG).
- If you are using a Sky Factory LSC 24PS Power System, make sure you have Standard w/ EcoSlim Electrical Packet (TSF).
- If you are using a Sky Factory provided CE compliant power supply, make sure you have Standard w/ EcoSlim Electrical Instructions (HLG).
- If you are using a client provided, UL Listed or CE Compliant power supply, make sure you have Standard w/ EcoSlim Electrical Instructions (ES Only).

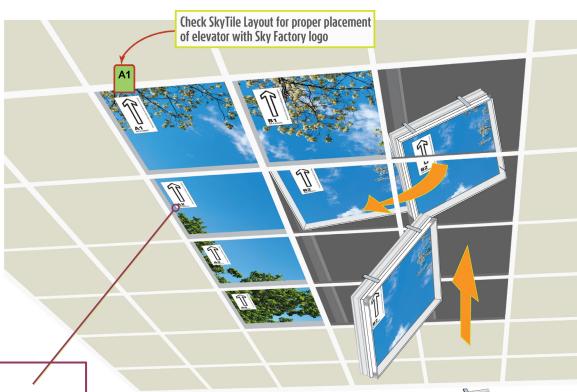
Step 4: Fixture and SkyTile orientation

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

In all installations with more than one fixture, an elevator with logo is provided.

Elevator is installed in location noted on SkyTile Layout (included with SkyTiles).





Important:

Quick release labels are for installation purposes only.

They orient the location and direction of each tile in the SkyCeiling.

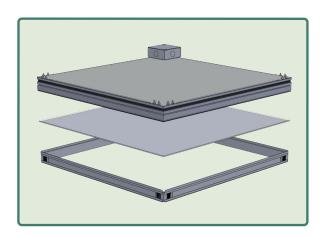
Labels MUST be removed once the SkyTiles are fully installed and checked for proper orientation.



Step 5: Option A - Install pre-assembled fixtures

If there is 9" (23cm) or more of clearance between the bottom of the grid and deck above, or where a pre-assembled fixture can be inserted into the space above the grid either from an adjacent opening or by removing part of the grid.

Pre-assemble the three components of the fixture: the Elevator, SkyTile and EcoSlim light box. See also detail on page 4

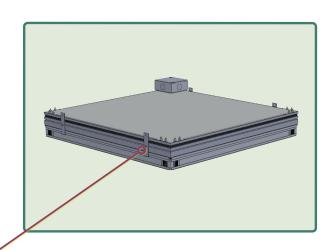


Use the hanger brackets to secure the Elevator to the light box.

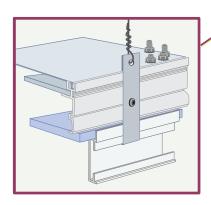
Brackets mount on opposite sides, 2 per side for ES22 Series, 3 per side for ES24 Series.

Set brackets 4" (10cm) in from corners and center the third one for ES24 Series.

Brackets screw to light box using 6-32 x 1/4" thread forming screws provided.



Hanger wire option shown.



Insert the assembled fixture into the grid much as you would a ceiling tile.



Step 6: Option B - Assemble components during installation

If a pre-assembled fixture cannot be inserted above the grid.

Insert the Elevator into the grid opening first.



Next, drop the SkyTile into the Elevator.



Then set the EcoSlim light box on top the Elevator/SkyTile sandwich..





Step 7: Check installation using Final Inspection list.



Do all the fixtures sit evenly in the grid?

- Hanger wire can force a fixture to sit off center. If so, re-attach the wire using a Grid Hanger Strap.
- If grid is not installed square, EcoSlim fixtures will sit unevenly in the opening. If so, adjust grid so it is square.

Are all the fixtures seated down on the grid flange?

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

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 EcoSlim light boxes are not working. Re-check wiring.

Does the SkyCeiling image match the SkyTile Layout image?

- Are the tiles in the correct position and orientation?
- If the SkyTile Layout has a head location, is the SkyCeiling properly oriented?

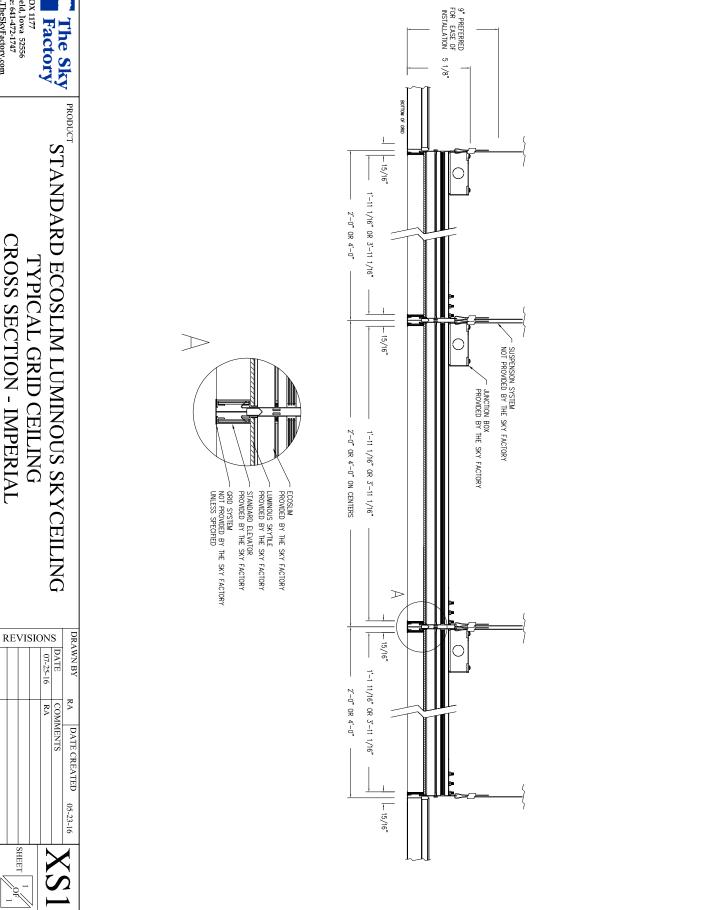
Is the elevator with logo in correct location?

- See SkyTile Layout for correct location.
- NOTE: Single 2x2 and 2x4 installations do not have logo.

Have the arrow-labels been removed once the image has been verified?

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





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