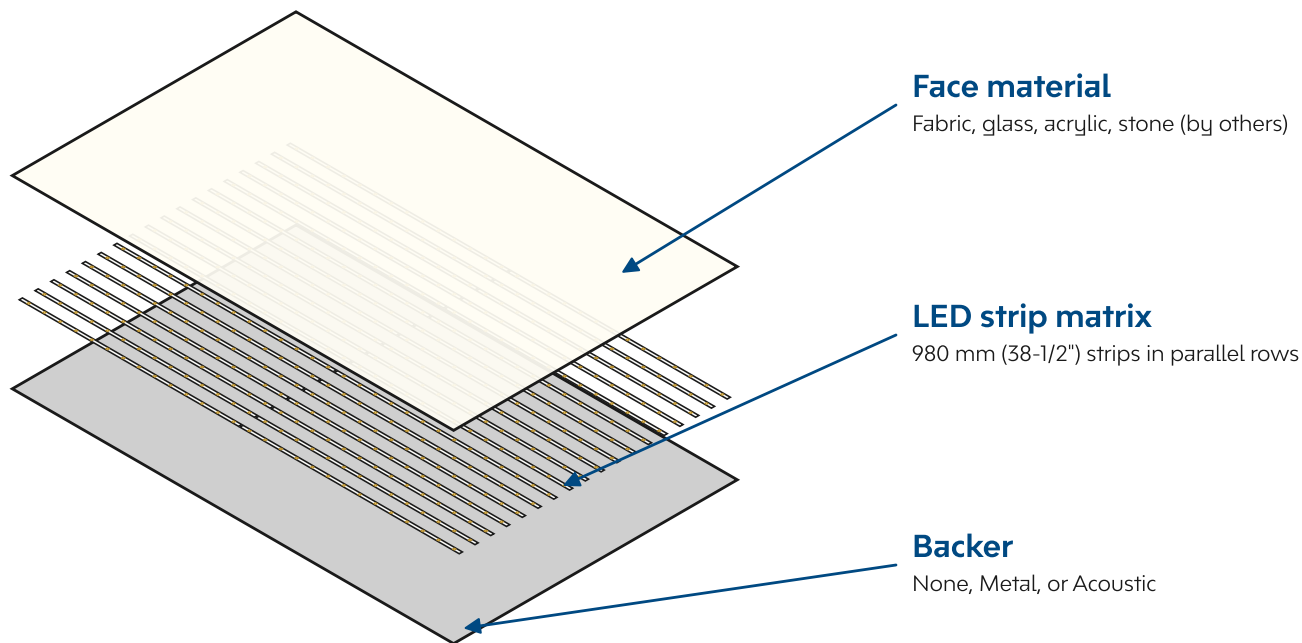
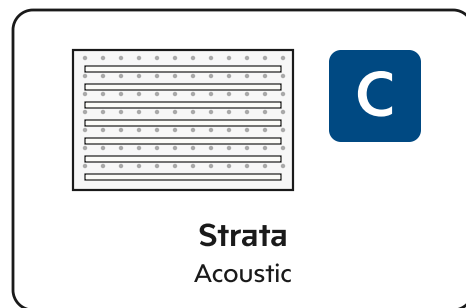
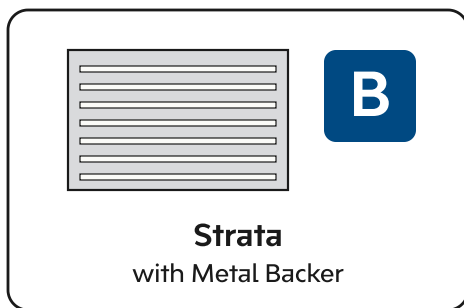
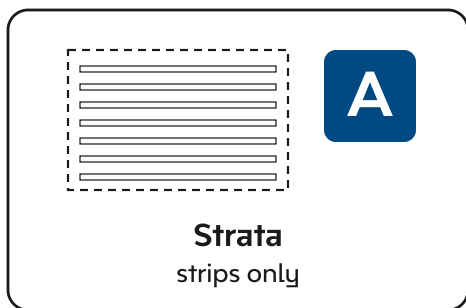


STRATA

Installation & Wiring Guide



One guide, three versions



General guide · Before you start · Delivery & handling · Parts & tools · Steps 1–6

Section A Strata (strips only) · **Section B** Strata with Metal Backer · **Section C** Strata Acoustic · Warranty

Read all instructions before you install. Keep this guide for future reference.

Before you start

 **Qualified electrician.** Install per the NEC and all local codes.

 **Power OFF** at the breaker before any installation or wiring.

 **Use only Class 2, 24 V DC drivers** supplied by EOS.

Product inspection

1. **Keep strips flat.** Don't fold, twist or sharply bend a strip. LEDs and solder joints can crack.
2. **Look before you install.** No scratched or missing LEDs, damaged pads or loose wires.
3. **Match the parts.** Before removing packaging, confirm the strips and drivers are compatible (24 V DC, same type: Static, Tunable or RGBW).
4. **Light test.** Brightness and color should be even along every strip when connected to the driver (Step 1).

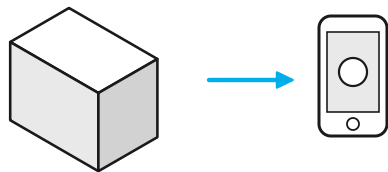
Strata at a glance

Strip length	980 mm (38-1/2")
LEDs per strip	Static 14 · Tunable 21 · RGBW 28
Row spacing	70 mm (2-3/4") · RGBW 50 mm (2")
Cut increment	140 mm (5-1/2") · RGBW 70 mm (2-3/4")
Mounting hole (PCB)	3/16" (4.8 mm)
Input	24 V DC · driver input 100–480 V
Power	Static 10 W/sq ft · Tunable 14 · RGBW 6
Wire gauge	20 AWG white · 24 AWG color
Unit size	1960 × 2438 mm (77" × 96")
Backlighting depth	Minimum 3" (76 mm) from LED strips to face material
Operating temp.	-13 °F to 158 °F

Approvals and certifications

The Strata System is UL listed for Architectural applications and UL recognized for signage. All power supplies are UL / ETL listed. UL file numbers E480527 and E467626. RoHS compliant.

Delivery & handling



1 Check the carton



2 Open and count



3 Inspect within 7 days

1. **Check the carton** as soon as it arrives. If you see damage, note it on the trucker's delivery receipt **before signing**, and take a phone photo.
2. **Open and count** the goods and check their condition. Note anything missing or damaged on the delivery receipt before signing.
3. **Count and inspect everything within 7 days** of receipt, or claims can't be made. If there is damage, notify the trucking company within 7 days and ask for a claim form, and notify EOS at the same time.

Carry strips and backer panels flat and with care. Mind the wire leads when unpacking. Store in a clean, dry, cool place out of direct sunlight.

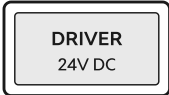
Parts



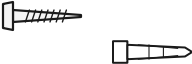
LED strips
980 mm (38-1/2"), cuttable



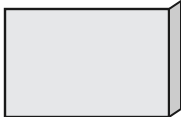
Connector wires
Red (+) / Black (-)



LED driver
Class 2 · 24 V DC (supplied by EOS)



Screws & anchors
M4 / #8 stainless pan-head (not included)

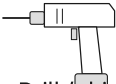


Metal backer (B)
White aluminum composite, max 60" × 120"



Acoustic backer (C)
1/2" (12 mm) white felt, 96" × 48"

Tools you need



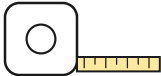
Drill / driver



3/16" drill bit



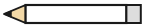
Screwdriver



Tape measure



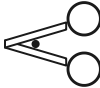
Level



Pencil



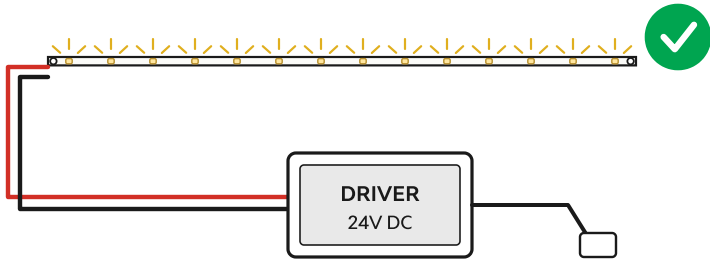
Wire stripper



Scissors

1 Test before you install

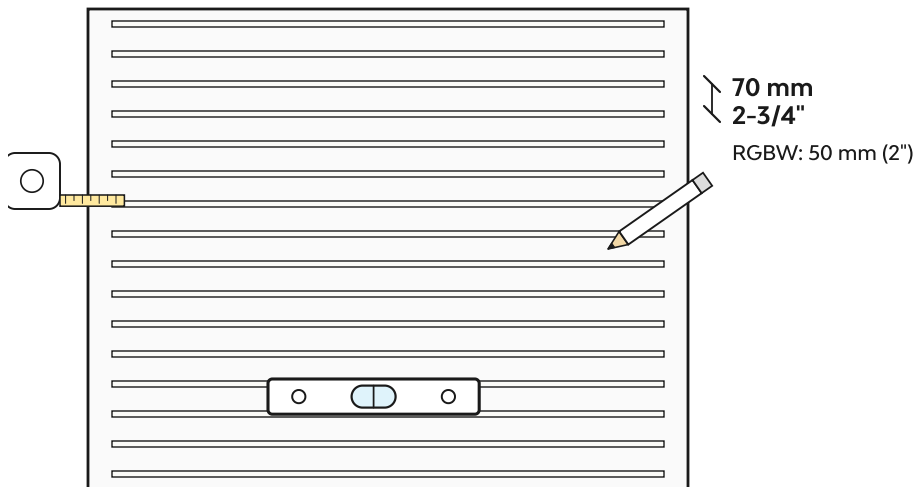
Connect every strip to the driver and check that all LEDs light evenly.



- Test **before** mounting. Report any shipping damage before installation.
- Red wire = positive (+). Black wire = negative (-).
- Power OFF before connecting or disconnecting.

2 Plan the layout

Rows run parallel, an even distance apart.

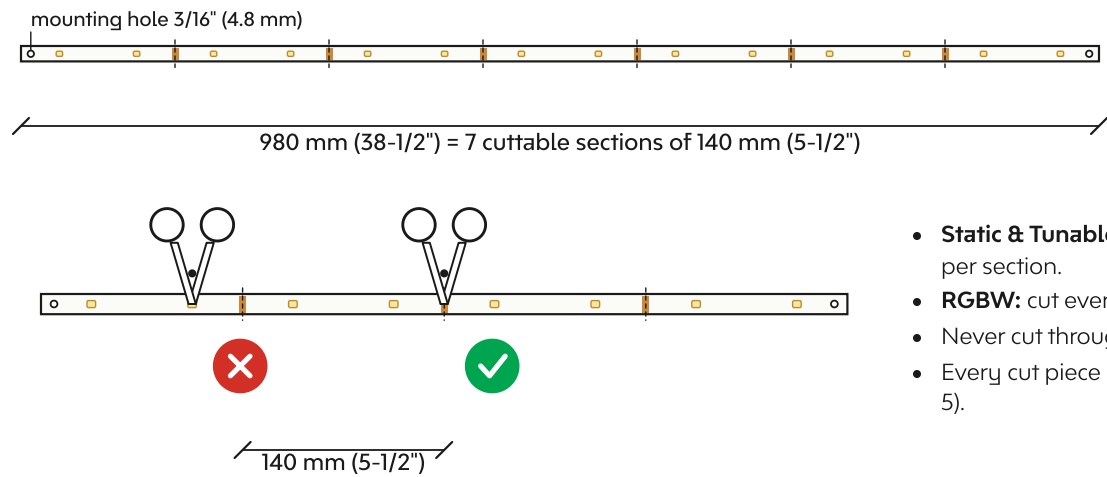


- **Row spacing:** 70 mm (2-3/4") for Static and Tunable White. 50 mm (2") for RGBW.
- Use a level and mark each row with a light pencil line.
- For even light, keep the first and last rows about half a row space from the edge: 35 mm (1-3/8"), or 25 mm (1") for RGBW.

3

Cut to length

Cut only on the marked cut lines.

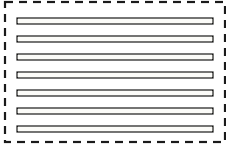


- **Static & Tunable:** cut every 140 mm (5-1/2"), two LEDs per section.
- **RGBW:** cut every 70 mm (2-3/4").
- Never cut through an LED or between the marks.
- Every cut piece needs its own + and - connection (Step 5).

4

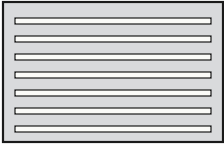
Mount the strips

Go to the section for your version.



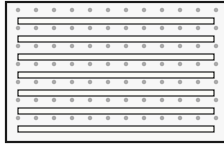
Strata
strips only

Section A · page 8



Strata
with Metal Backer

Section B · page 9



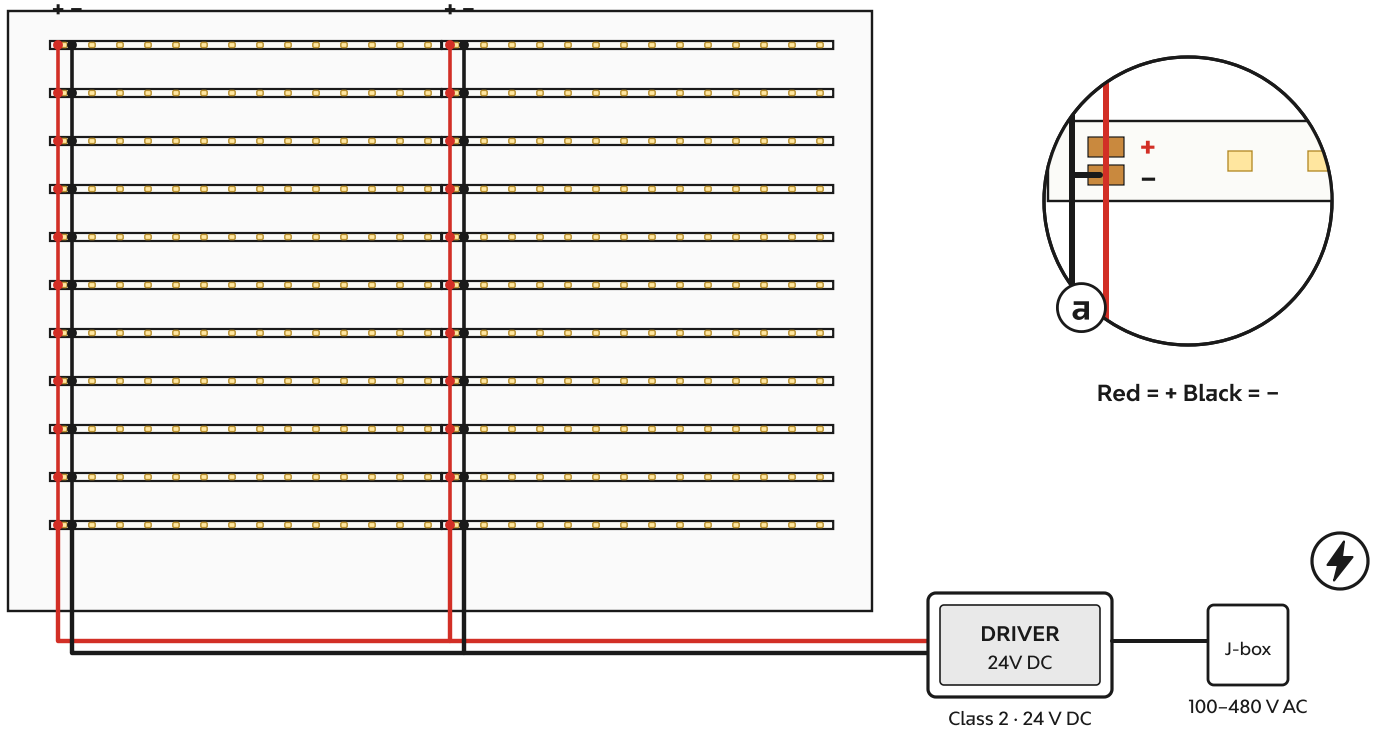
Strata
Acoustic

Section C · page 10

5

Wire the rows

Vertical connector wires run between the rows and link them in parallel.

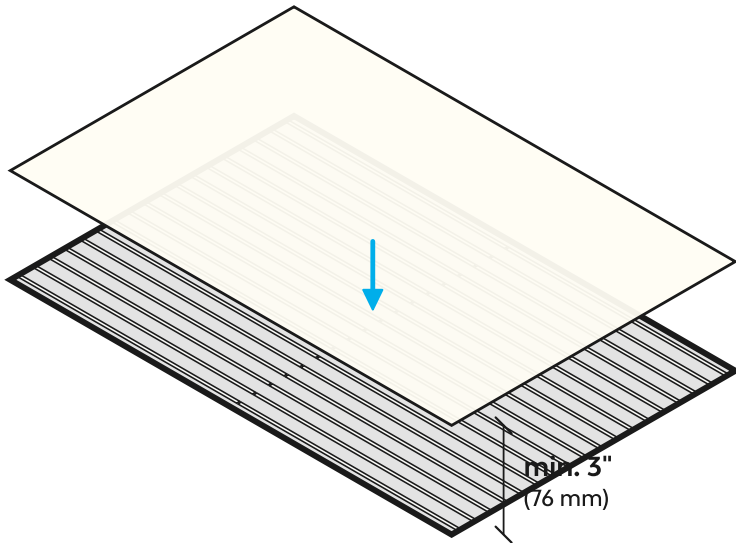


- **Vertical wiring:** connector wires run vertically between the rows. Connect every row + to + (red) and - to - (black).
- **Never cross polarity.** A reversed row won't light and can damage the driver.
- **Wire gauge:** 20 AWG for white systems, 24 AWG for color (RGBW).
- **Size the driver:** add up the wattage (Static 10 W/sq ft, Tunable 14, RGBW 6) and load each driver to no more than 80% of its rating.
- **Driver to power:** the 100-480 V AC connection to the driver is made in a junction box by a licensed electrician.
- Keep wires flat and clear of the LEDs so they don't cast shadows through the face material.

6

Power on and install the face material

Turn the power on, check every row, then close up.



- **Backlighting depth: minimum 3" (76 mm)** between the LED strips and the face material, for even, hotspot-free light on any material.
- Turn power ON and confirm every row lights evenly **before** closing up.
- Face material (by others): fabric, glass, acrylic, stone and similar.
- Strata Acoustic (Section C) needs an acoustically open fabric face.
- Once installed, the Strata System is virtually maintenance free.

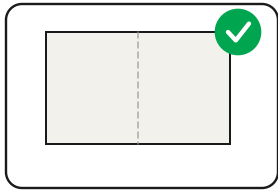


Strata

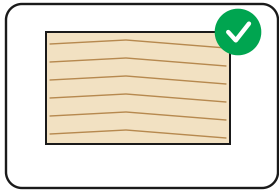
Strips only, mounted directly to the surface

A1 Choose the right surface

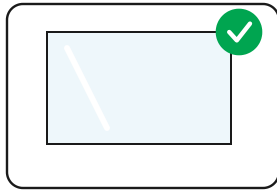
Flat, dry and non-conductive.



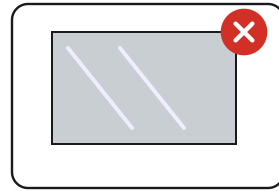
Drywall



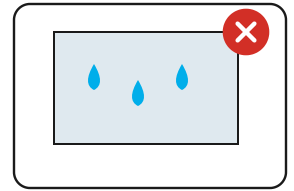
Wood / plywood / MDF



Plastic / PVC / acrylic



Bare metal

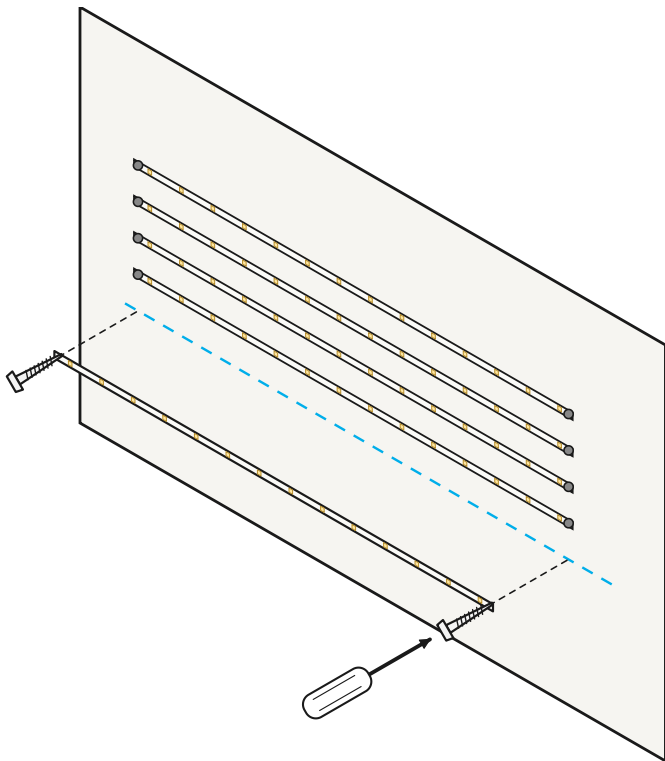


Wet surface

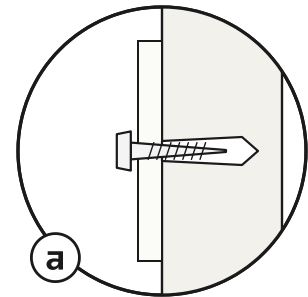
- Mount bare strips **only** onto a flat, dry, **non-conductive** surface: drywall (gypsum board), wood, plywood or MDF, or plastic sheet (PVC, acrylic).
- **Never** mount bare strips directly onto metal or another conductive surface. It can short the circuit. On metal, use Strata with Metal Backer (Section B).
- The surface must be clean, solid and flat so every strip lies flat along its full length.

A2 Screw through the end holes

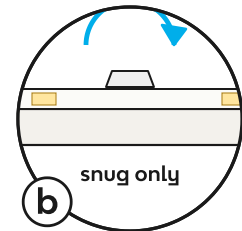
Each strip has a 3/16" (4.8 mm) mounting hole at each end.



3/16" (4.8 mm) hole



a



b

- **Screws:** M4 or #8 stainless steel pan-head (not included). Don't use countersunk (flat-head) screws.
- **Drywall:** use a drywall anchor at every hole, or screw into a stud.
- **Wood, plywood, MDF:** screw in directly. Pre-drill a small pilot hole in hardwood.
- **a** Line each strip up on its row line and fasten both ends.
- **b** Snug only. Don't over-tighten, and keep the screw head off the LEDs and the + / - pads.
- Then continue with **Step 5, Wire the rows.**

B

Strata with Metal Backer

Strips on a white aluminum composite backer, max 60" × 120"

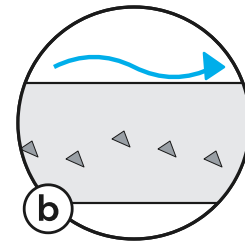
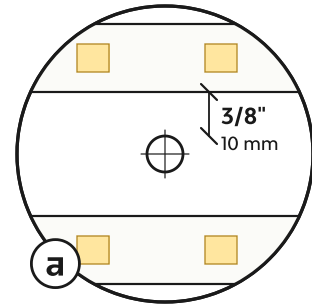
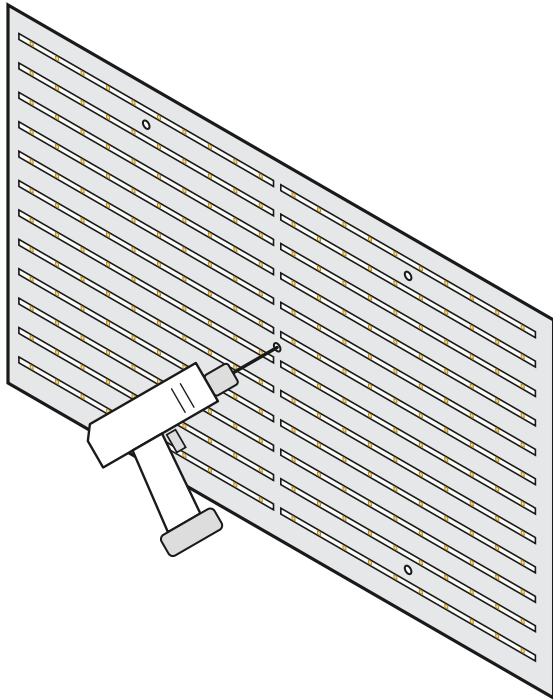
B1 Mounting holes

Factory pre-drilled holes are recommended.

- Send a drawing with your order and the factory will pre-drill the mounting holes in the backer.
- If you drill on site, follow B2. **Never drill or screw through an LED or a strip.**

B2 Drill on site from the front

Drill from the LED side so you can see the LEDs and the wires.



- Drill from the **front** (LED side), so you can see exactly where the strips and wires are.
- **a** Drill only in the gap between rows, at least 3/8" (10 mm) from any LED, strip or wire. Use a 3/16" bit and drill a small pilot hole first.
- Support the backer on a flat surface with a soft mat underneath.
- **b** Blow or vacuum away **all** aluminum chips. Metal shavings can short the strips.

B3 Mount the backer

Use M4 stainless steel screws (not included).

Use anchors suited to the wall. Then continue with **Step 5, Wire the rows.**



Strata Acoustic

1/2" (12 mm) white polyester-fiber felt backer · NRC 0.70

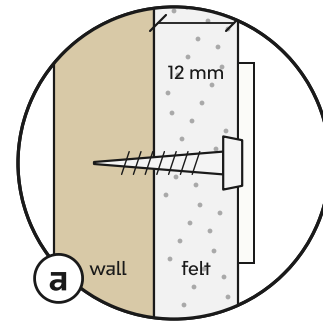
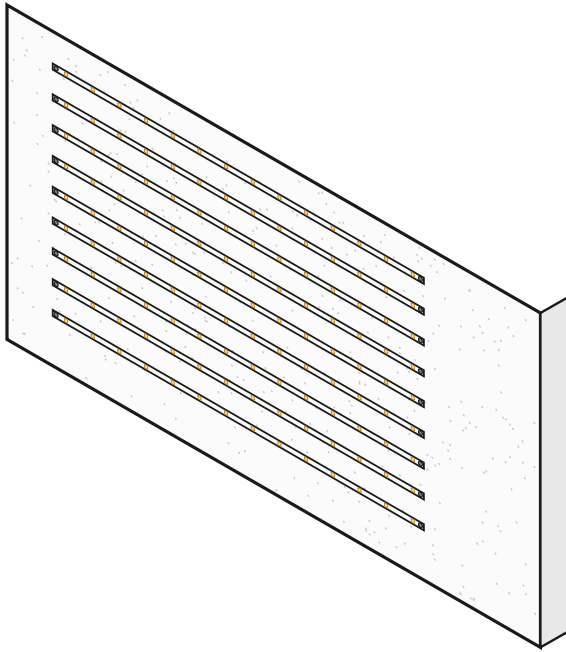
C1 Install the acoustic backer

The felt panels (96" × 48") are adhesive-mounted to the frame or substrate.

- Butt the panels tight with no gaps. Keep the felt clean and dry.
- The backer doesn't change wattage or wiring.

C2 Fasten the strips through the felt

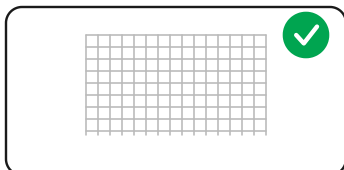
Screw through the end holes, through the felt and into the substrate.



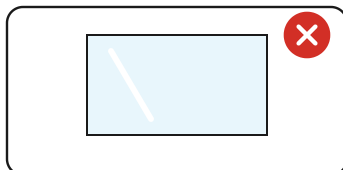
- Mark the rows lightly on the felt (Step 2).
- **a** Screws: M4 or #8 stainless pan-head, long enough to pass the 1/2" (12 mm) felt and reach at least 3/4" (19 mm) into the substrate, so **1-1/4" minimum**. Each strip has a 3/16" (4.8 mm) hole at each end.
- Behind the felt: screw straight into wood or plywood. On drywall, set anchors through the felt, or screw into a stud.
- Snug only. Don't crush the felt. The strip must sit flat.

C3 Face material

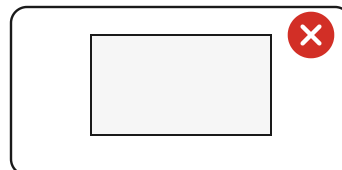
Use an acoustically open fabric to keep the sound absorption.



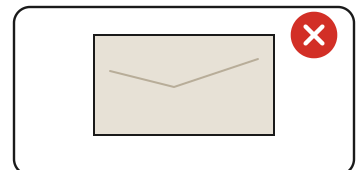
Fabric (acoustically open)



Glass



Acrylic



Stone / solid

A solid face (glass, acrylic, stone) blocks sound from reaching the felt. Then continue with **Step 5, Wire the rows**.

Warranty terms & conditions

LIMITED WARRANTY

EOS warrants that the Strata LED Strip Matrix System, will be free from defects in materials or workmanship for a period of five (5) years. This Warranty period shall commence on the date of shipment of the relevant products from EOS. The Warranty shall only be extended to the original purchaser of the products and/ or to the first purchaser who is the end user of the products. EOS is not responsible for any auxiliary equipment or third party products not supplied by EOS.

EXCLUSIONS

This Warranty shall not apply to any damages caused as a result of force majeure, misuse or improper use of the products, faulty installation, poor electrical connections or negligence by any party other than EOS. In addition, this Warranty is not applicable to any EOS product improperly shipped, stored, installed, operated, and used, including, inter alia, shipping, storage, installation, operation and use otherwise than in accordance with one or more of the following: (a) EOS specifications, including for maximum operating temperature, (b) EOS instructions and guidelines, including without limitation wiring diagrams, (c) remote applications using extended wire lengths beyond EOS recommended limits, (d) poor or loose connections, or faulty lamp holders, (e) applicable safety standards issued by the Underwriters Laboratory (UL), as well as the UL's Conditions of Acceptability, (f) National Electric Code (NFPA NEC) standards, (g) the applicable standards of the American National Standards Institute (ANSI), and (h) applicable federal, state and local electrical codes. Moreover, this Warranty shall not apply if any one or more of the following applies to the unit giving rise to the claim: (i) any original EOS label or marking was partially or completely removed, covered, or altered; (ii) the unit was subjected to abnormal stresses or operating conditions; (iii) the unit had, at some time prior to the claim, not been fully paid for, or had otherwise be connected with Buyer's breach of EOS General Terms and Conditions of Sale; and (iv) the Buyer is in arrears to EOS.

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LABOR AND OTHER WARRANTY COSTS EOS is not liable for any labor costs, machine or equipment rental, or any other costs associated with product failure. EOS provides a parts only warranty and only accepts liability to repair or replace failed product and hereby expressly states that it is not in any way responsible for any other ancillary costs of product failure, named above or otherwise

TO OBTAIN WARRANTY SERVICE

In the event that any of the warranted products fail to comply with the Warranty during the applicable Warranty period, please contact EOS to report the non-compliance and verify Warranty coverage. In the event that EOS issues a Return Merchandise Authorization ("RMA") number, you must comply with the product return procedure and ensure that the RMA number accompanies the product. EOS may, in its sole discretion, repair or replace products determined to eligible for Warranty coverage, or may issue a credit for the purchase of replacement products.