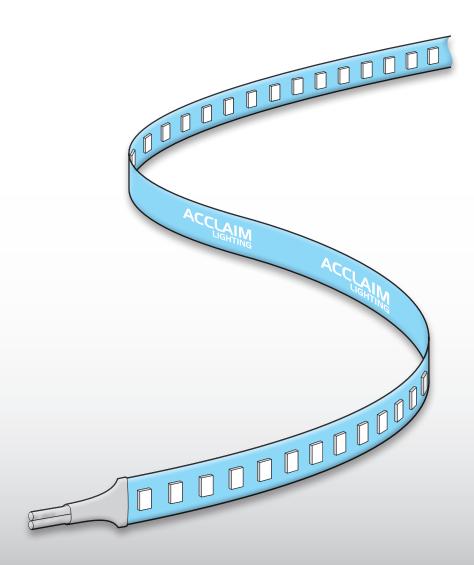
ACCLAIM LIGHTING



Flex Eco Interior

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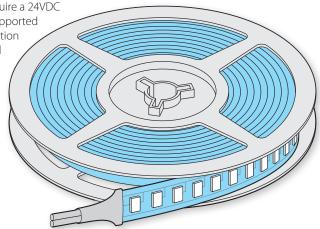
INTRODUCTION

WELCOME

Welcome to the Flex Eco Interior range from Acclaim Lighting. These ultra low power LED tapes, together with a wide range of mounting channels (see opposite page), suit many installation situations.

Flex Eco Interior tapes are available with a choice of single color emitters with Correlated Color Temperature (CCT) options ranging from 2400K to 4000K.

Flex Eco Interior tapes require a 24VDC supply and dimming is supported using Pulse Width Modulation (PWM) by various optional driver units - see page 6.



SAFETY

 Ensure that the power input is supplied from a correctly fused, earthed and environmentally protected location.

MAINTENANCE

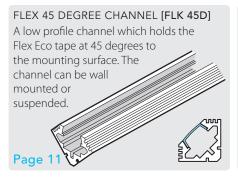
CAUTION: Always isolate mains power before starting maintenance operations.

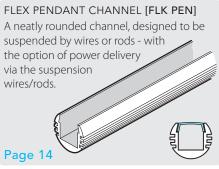
- Ensure that all mounting (and device) screws/bolts are fully tight and free of corrosion.
- Ensure there is no deformation to the housing, lenses or fixing points.
- Check that all power supply cables are free from physical damage or material fatigue.
- Use only genuine spare parts supplied by Acclaim Lighting.

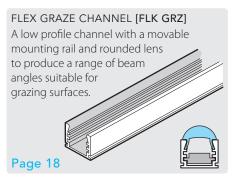
CLEANING

- Use a moist, lint-free cloth when cleaning each fixture.
- Never use alcohol or solvents.

CHANNEL TYPES

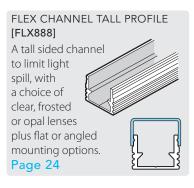


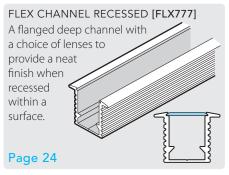














INSTALLATION

Flex Eco Interior tapes are supplied with $3M^{\text{M}}$ VHB acrylic adhesive backing, protected by a peel-off paper liner. To ensure that good adhesion is achieved, ensure the mounting surface is free of grease, moisture and any contaminates.

WHEN MOUNTING ON THE SIDES OR UNDERSIDES OF SURFACES

We recommend that you add small dots of silicone sealant along both sides of the Flex tape (to overlap the tape edge and mounting surface) using Dow Corning® 799, 1199 or equivalent. This will provide additional stability and help to prevent any separation of the tape from the mounting surface over time. The silicone dots are best applied once the tape is fixed in place; then the whole installation should not be disturbed until it the sealant has fully cured.



• For further details about specific mounting surfaces, see page 35.

CLEANING AND PREPARING THE MOUNTING SURFACE

Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA) and water* prior to applying the tape. Exceptions to this general procedure that may require additional surface preparation include:

HEAVY OILS

A degreaser or solvent-based cleaner* (such as $3M^m$ Prep Solvent 70, $3M^m$ Citrus Base Cleaner, mineral spirits, naphtha or similar, subject to suitability for the surface material) may be required to remove heavy oil or grease from a surface and should be followed by cleaning with IPA/water*.

OTHER CONTAMINATION OR OXIDATION

Abrading a surface, followed by cleaning with IPA/water*, can remove heavy dirt or oxidation (e.g. galvanized steel) and can increase surface area to improve adhesion. Abrasion often also helps adhesion to paints and plastics. Very small scratches in the surface, generated with circular motion rather than straight-line motion, are most desirable.

* Note: These cleaner solutions contain greater than 250 g/l of volatile organic compounds (VOC). Please consult your local Air Quality Regulations to be sure the cleaner is compliant. When using solvents, be sure to follow the manufacturer's precautions and directions for use when handling such materials

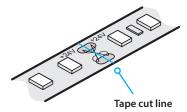
CUTTING AND CONNECTING THE TAPE

Flex Eco tapes are supplied with a fixed 3.28' (1m) feed cable (with bare tails).

TO CUT THE TAPE

Flex Eco tapes are marked with a cut line every four inches (100mm) - every six LED emitters.

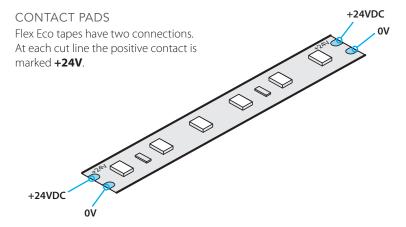
IMPORTANT: Do not cut the tape at any location other than the cut line. Ensure the cut is made cleanly along the line.



TO CONNECT THE TAPE

Once cuts are made to a Flex Eco tape, connections need to be made to the new sections. Either side of each cut line are bare copper contact pads where you can make connections by soldering feed wires.

Note: When soldering, minimize the time spent heating the tape to avoid damage to the nearby components.



POWERING AND DIMMING FLEX ECO TAPES

Flex Eco tapes are run at 24VDC and consume power as follows:

per foot per meter per 16.4' (5m) spool

• 0.97W 3.2W 16W

Note: The maximum overall tape length per run is 16.4′ (5 meters). This is limited by the current capacity of the power buses within each tape.

CONNECTION CABLES

The connection cables (not supplied) used to link Flex Eco tapes to the power/driver unit should follow these quidelines (based on a load of 0.7A for 16.4'/5 meters of Flex Eco tape):

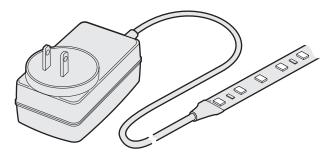
Up to 40 feet (12m)
 Up to 100 feet (30m)
 Up to 180 feet (54m)
 AWG (0.823mm²)
 14 AWG (2.081mm²)
 12 AWG (3.309mm²)

In all cases, ensure the voltage drop at the fixture end of the link cable is no greater than 9% (2.16V) of the original 24VDC supply.

FLEX ECO POWER SUPPLIES AND DIMMERS

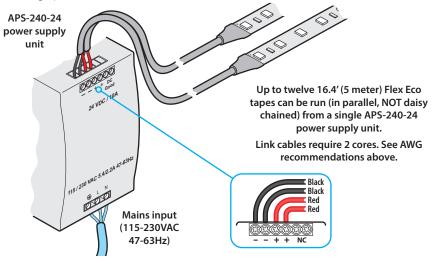
APS-30-24

This dry location 30W power adapter can power one Flex Eco spool. It can also be used in conjunction with AL Driver 1 units to provide power for dimming.



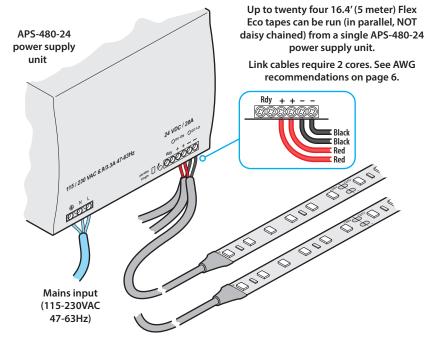
APS-240-24

This DIN-rail 240W power supply can power up to twelve 16.4' (5 meter) Flex Eco spools. It could also be used in conjunction with one or more AL Driver 1 units to provide power for dimming operations.



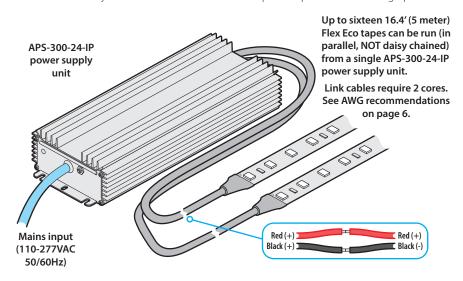
APS-480-24

This DIN-rail 480W power supply can power up to twenty four 16.4' (5 meter) Flex Eco spools. It could also be used in conjunction with one or more AL Driver 1 units to provide power for dimming operations.



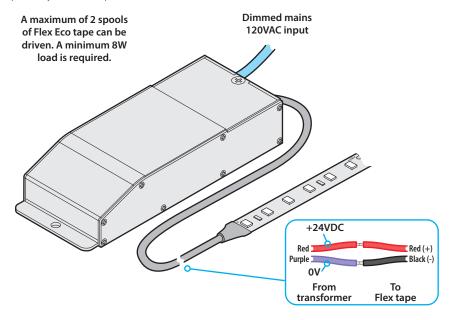
APS-300-24-IP

This IP67 rated power supply can power up to sixteen 16.4' (5 meter) Flex Eco spools. It could also be used in conjunction with AL Driver 1 units to provide power for dimming operations.



E40L24DC-KO 24VDC DIMMABLE DRIVER

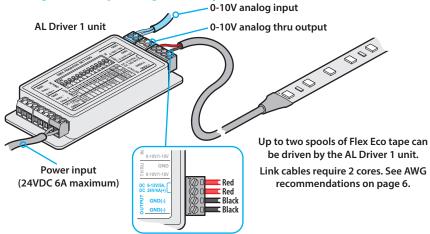
This wet location (NEMA 3R casing) driver allows Flex Eco tapes to be integrated into an existing dimmed-circuit lighting installation. This driver is connected alongside (or in place of) the incumbent lighting fixture and converts the 120VAC dimmed supply to the 24VDC required by the Flex tapes.



AL DRIVER 1

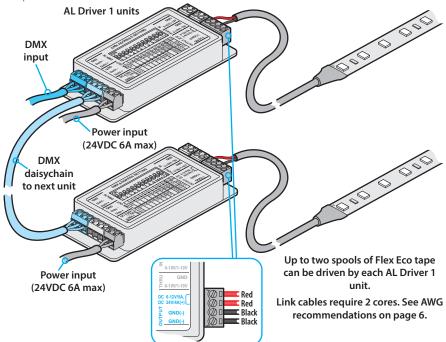
This compact unit measures just $3.5'' \times 1.6'' \times 0.8''$ and provides dimming control for Flex Eco tapes from either analog 0-10V **or** digital DMX control inputs. The AL Driver 1 unit requires a 24VDC power supply (such as the Acclaim Lighting APS-240-24) and can drive up to two spools.

Dimming control by analog 0-10V input



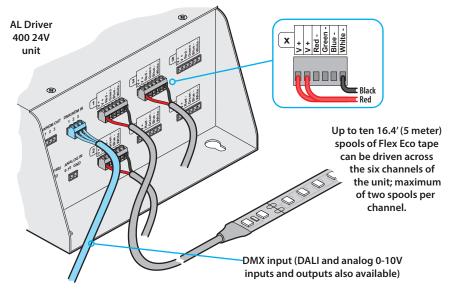
Dimming control (and control daisy chaining) by DMX

Up to 32 AL Driver 1 units can be daisy chained on a single unbuffered DMX line. The final unit in the daisy chain must be terminated by a 120Ω resistor across the Data + and – output terminals.



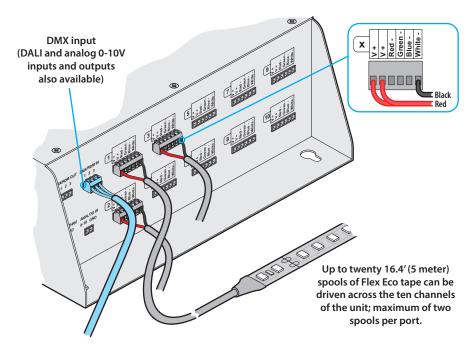
AL DRIVER 400 24V

This combined power supply and driver provides dimming control for multiple Flex Eco tapes from DMX/RDM, 0-10V or DALI inputs. See AWG recommendations on page 6.



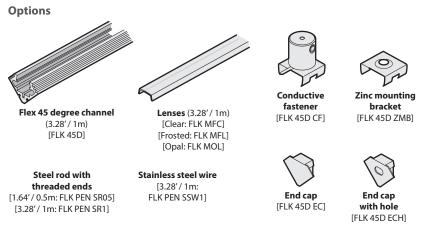
AL DRIVER 800 24V

This combined power supply and driver provides dimming control for multiple Flex Eco tapes from DMX/RDM, 0-10V or DALI inputs. See AWG recommendations on page 6.



FLEX 45 DEGREE CHANNEL (FLK 45D)

This low profile channel holds the Flex Eco tape at 45 degrees to the mounting surface. The Flex Eco 45 degree channel can be wall/ceiling mounted or alternatively suspended by wires or rods - with the option of power delivery via the suspension wires/rods. Clear, opal and frosted lens options are available. For channel dimensions, see page 32.



TO FIT THE FLEX ECO TAPE

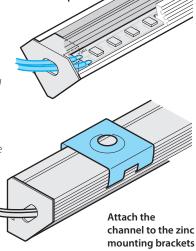
- 1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.



- 5 Begin peeling the backing from the Flex Eco tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.
 - IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

TO SURFACE MOUNT

- 1 Fit the Flex Eco tape to the channel (see Page 11).
- 2 At the end where the connection will take place, fit an *End cap with hole*.
- 3 Feed the link cables through the end cap and carefully solder to the contact pads, if necessary (see page 5).
- 4 At the other end of the channel, fit a standard *End cap*.
- 5 Fit the required lens (see below).
- 6 Attach two or more *Zinc mounting brackets* to the mounting surface using screws appropriate to the surface type.
- 7 Clip the channel into the mounting brackets using the slots shown here:

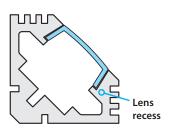


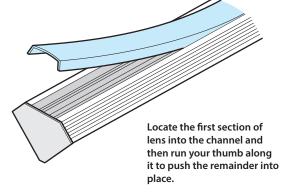
Solder the link cables to the contact pads

Note: Ensure sufficient strain relief where the cables enter the channel.

TO FIT A LENS

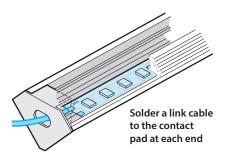
- 1 Measure the exact length of lens required between the end caps at each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Insert one end of the lens against one of the end caps so that it locates into the 'Lens recess' within the channel (see right).
- 4 Once the first part of the lens has correctly located, run your thumb gently along the length of the lens to push the remainder into place.

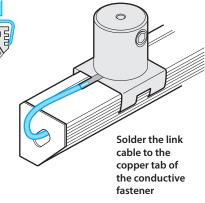


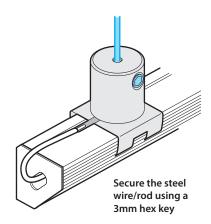


TO SUSPEND USING CONDUCTIVE FASTENERS

- 1 Fit the Flex Eco tape to the channel (see Page 11).
- 2 At each end, fit an End cap with hole.
- 3 At each end, feed a link cable through the end cap and carefully solder to the contact pad (see page 5).
 - Note: One end must connect to the +24V pad while the other end links with the 0V pad.
- 4 At each end, fit a *Conductive fastener* using the slots shown here: and solder the link cable to the copper tab.
- 5 Make a note of the polarity of the connections at each end and fit the required lens (see Page 12).
- 6 Secure the two steel wires/rods to their ceiling mounts and thread each into the holes within the conductive fasteners. Double check that the polarities at each end match those supplied by the steel wires/ rods.
- 7 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.

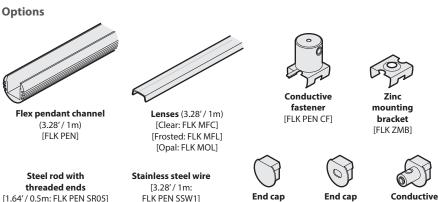






FLEX PENDANT CHANNEL (FLK PEN)

The Flex pendant channel can be mounted from fixed steel rods, stainless wire or against a flat surface. Conductive end caps or fasteners can be used to transfer power via the supportive wires or rods. Clear, opal and frosted lens options are available. For channel dimensions, see page 32.



[FLK PEN EC]

with hole

IFLK PEN ECH1

end cap [FLK PEN CEC]

TO FIT THE FLEX ECO TAPE

tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.

[3.28' / 1m: FLK PEN SR1]

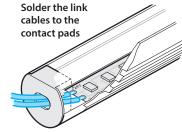
- 1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.
- Determine the length of tape required. Leave at least a 10mm gap at each end to allow the end caps to be inserted. Mark the positions at each end of the channel where the tape will be placed.
 Note: Flex Eco tape can only be cut every 4" (100mm) and this may mean that a precise length of Flex Eco tape cannot be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution.
 4 Cut the tape to the nearest marked cutpoint.
 5 Begin peeling the backing from the Flex Eco
 - IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

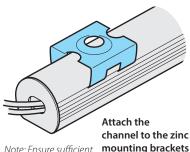
TO SURFACE MOUNT

- 1 Fit the Flex Eco tape to the channel (see page 14).
- 2 At the end where the connection will take place, fit an *End cap with hole*.
- 3 Feed the link cables through the end cap and carefully solder to the contact pads, if necessary (see page 5).
- 4 At the other end of the channel, fit a standard *End* cap.
- 5 Fit the required lens (see page 17).
- 6 Attach two or more Zinc mounting brackets to the mounting surface using screws appropriate to the surface type.
- 7 Clip the pendant channel into the mounting brackets using the slot closest to the rounded back of the channel.

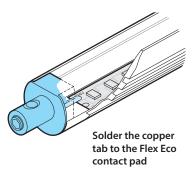
TO SUSPEND USING CONDUCTIVE END CAPS

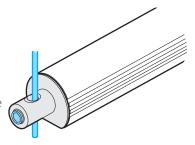
- 1 Fit the Flex Eco tape to the channel (see page 14).
- 2 At each end, fit a Conductive end cap.
- 3 At each end, solder the copper tab of the conductive end cap to the tape contact pad with which it aligns (see page 5). One end must connect to the +24V pad while the other end links with the 0V pad.
 - If the end of the Flex Eco tape is more than 11mm from the pendant channel edge you will need to use additional wire to bridge the gap between the copper tab and the contact pad.
 - Note: Ensure the copper tab (and additional wire) are fully insulated from the channel surface.
- 4 Make a note of the polarity of the connections at each end and fit the required lens (see page 17).
- 5 Drop the two steel wires/rods from their ceiling mounts and thread each into the holes within the conductive end caps. Double check that the polarities at each end match those supplied by the two steel wires/rods.
- 6 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.





Note: Ensure sufficient strain relief where the cables enter the channel.

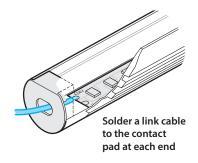


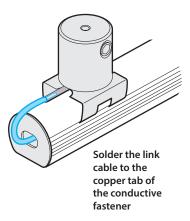


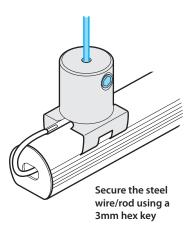
Thread the steel wire/ rod and secure using a 3mm hex key

TO SUSPEND USING CONDUCTIVE **FASTENERS**

- 1 Fit the Flex Eco tape to the channel (see page 14).
- 2 At each end, fit an End cap with hole.
- 3 At each end, feed a link cable through the end cap and carefully solder to the contact pad (see page 5).
 - Note: One end must connect to the +24V pad while the other end links with the OV pad.
- 4 At each end, fit a Conductive fastener and solder the link cable to the copper tab.
- 5 Make a note of the polarity of the connections at each end and fit the required lens (see page 17).
- 6 Secure the two steel wires/rods to their ceiling mounts and thread each into the holes within the conductive fasteners. Double check that the polarities at each end match those supplied by the steel wires/rods.
- 7 Establish the required height of the pendant channel and use a 3mm hex key to tighten the clamps so the channel is horizontal (using a spirit level) and fully secure.

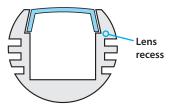


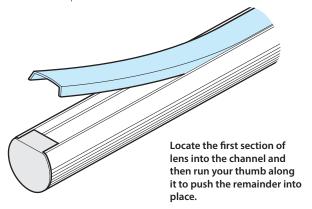




TO FIT A LENS

- 1 Measure the exact length of lens required between the end caps at each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Insert one end of the lens against one of the end caps so that it locates into the 'Lens recess' within the channel (see right).
- 4 Once the first part of the lens has correctly located, run your thumb gently along the length of the lens to push the remainder into place.

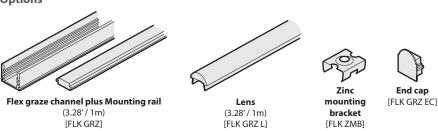




FLEX GRAZE CHANNEL (FLK GRZ)

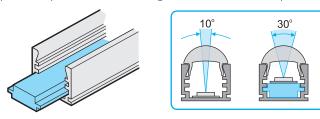
The Flex graze channel is a low profile channel that, when used with its rounded lens produces a linear spread of light suitable for grazing nearby surfaces. The supplied mounting rail can be optionally used to alter the distance between the emitters and the lens and thus determine the resulting beam angle (the beam angle is 10° as standard if the mounting rail is not used). For channel dimensions, see page 32.

Options



TO FIT THE FLEX ECO TAPE

- 1 If necessary, cut the channel (and Mounting rail, if needed remember to leave space for the end caps) to the length required. Ensure that any resulting burrs are removed.
- 2 [Optional step] Slide in the *Mounting rail* to determine the required beam angle:



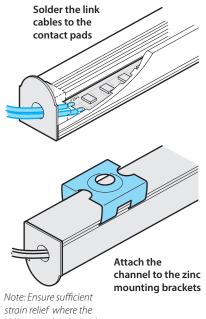
- 3 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.
- 4 Determine the length of tape required. Leave at least a 10mm gap at each end to allow the end caps to be inserted. Mark the positions at each end of the channel where the tape will be placed. Note: Flex Eco tape can only be cut every 4" (100mm) and this may mean that a precise length of Flex Eco tape cannot be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution. Note: Feed and link 5 Cut the tape to the nearest marked cutpoint. connectors cannot be fitted inside this channel.
- 6 Begin peeling the backing from the Flex Eco tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.

IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

60°

TO SURFACE MOUNT

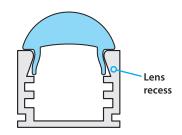
- 1 Fit the Flex Eco tape to the channel (see page
- 2 Determine the size of hole required to pass the Flex Eco tape connection wires and drill a hole through one of the End caps.
- 3 At the end where the connection will take place, fit the drilled End cap.
- 4 Feed the link cables through the end cap and carefully solder to the contact pads, if necessary (see page 5).
- 5 At the other end of the channel, fit another End
- 6 Fit the lens (see below).
- 7 Attach two or more Zinc mounting brackets to the mounting surface using screws appropriate to the surface type.
- 8 Clip the channel into the mounting brackets using the slots running along each side of the channel

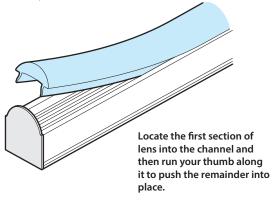


cables enter the channel.

TO FIT THE LENS

- 1 Measure the exact length of lens required between the end caps at each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Insert one end of the lens against one of the end caps so that it locates into the 'Lens recess' within the channel (see right).
- 4 Once the first part of the lens has correctly located, run your thumb gently along the length of the lens to push the remainder into place.

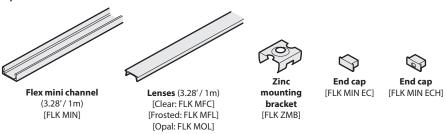




FLEX MINI CHANNEL (FLK MIN)

The Flex mini channel is a very low profile channel with minimal standoff from the mounting surface. A choice of three lenses provide varying light distributions while mounting is best handled using the zinc mounting bracket options. For channel dimensions, see page 32.

Options



TO FIT THE FLEX ECO TAPE

- 1 If necessary, cut the channel (remember to leave space for the end caps) to the length required. Ensure that any resulting burrs are removed.
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.
- 3 Determine the length of tape required. Leave at least a 10mm gap at each end to allow the end caps to be inserted. Mark the positions at each end of the channel where the tape will be placed.

 Note: Flex Eco tape can only be cut every 4" (100mm) and this may mean that a precise length of Flex Eco tape cannot be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution. If the section of Flex Eco tape you are using requires feed cables to be attached, it will be

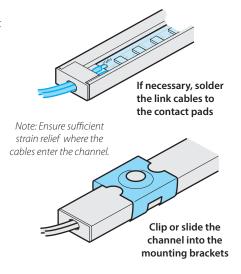
necessary to solder new connections as the Flex mini channel is too small to accommodate feed or link connectors. You will find it easier to solder the connections before fitting the tape into the Flex mini channel.

- 4 Cut the tape to the nearest marked cutpoint.
- 5 Begin peeling the backing from the Flex Eco tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.

IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

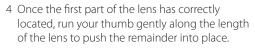
TO MOUNT THE CHANNEL

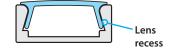
- 1 If necessary, carefully solder to the contact pads (see page 5).
- 2 Fit the Flex Eco tape to the channel (see page 20).
- 3 Attach two or more *Zinc mounting* brackets to the mounting surface using screws appropriate to the surface type.
- 4 Clip or slide the channel into the mounting brackets.



TO FIT A LENS

- 1 Measure the exact length of lens required between the end caps at each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Insert one end of the lens against one of the end caps so that it locates into the 'Lens recess' within the channel (see right).



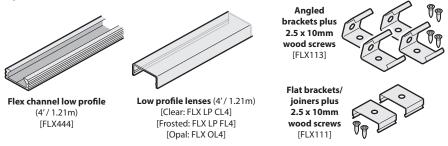




FLEX CHANNEL - LOW PROFILE (FLX444)

This low profile option is ideal for mounting within tight spaces. There is a choice of clear, frosted or opal lenses. For channel dimensions, see page 42.

Options



TO FIT THE FLEX ECO TAPE

- 1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.

3 Determine the length of tape required. If necessary, leave a gap at each end.

Mark the positions at each end of the channel where the tape will be placed.

Note: Flex Eco tape can be cut every 1" (25mm), which may slightly constrain the precise lengths of tape that can be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution.

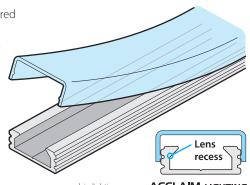
- 4 Cut the tape to the nearest marked cutpoint.
- 5 Note: If you are attaching the channel directly to a surface, see 'To surface mount directly' on page 32 before sticking the tape in place.Begin peeling the backing from the Flex Eco tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.

IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

TO FIT A LENS

- 1 Measure the exact length of lens required between each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Place one end of the lens over the channel so that it slots into the 'Lens recess' (see right). Then run your hand along the length of the lens to gently push the remainder into place.

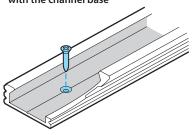
Note: Lenses are UV stabilized.



TO SURFACE MOUNT DIRECTLY

- 1 Before fitting the Flex Eco tape, determine where the channel is to be mounted.
- 2 Drill the required number of holes in the base of the channel and countersink them. *Note: A small* groove runs down the center of each channel base to provide a guide for your drill.
- 3 Mount the channel and use countersunk screws to secure it. IMPORTANT: The screw heads must lie flush with the channel base.
- 4 Fit the Flex Eco tape to the channel (see Page 31).
- 5 Carefully solder to the contact pads, if necessary (see page 5).

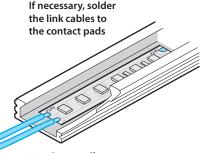
Drill countersunk holes and use screws that will lie flush with the channel base



TO SURFACE MOUNT USING BRACKETS

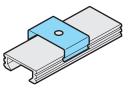
- 1 If necessary, carefully solder to the contact pads or use a feed/link cable (see page 5).
- 2 Fit the Flex Eco tape to the channel (see Page 31).
- 3 Attach two or more brackets (of the required type: *Flat brackets* or *Angled brackets*) to the mounting surface using either the supplied screws or others that are more appropriate to the surface type.

The angled bracket can be used in either of two orientations to provide an angle of either 30 or 45 degrees to the mounting surface (as shown below).

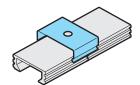


Note: Ensure sufficient strain relief where the cables enter the channel.

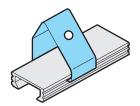
4 Clip the channel into the mounting brackets:



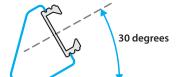
Attaching a flat bracket

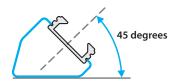


Using a flat bracket to join two channels



Attaching an angled bracket

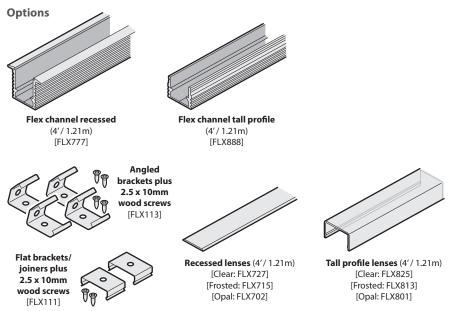




The angled bracket can be used in either of two orientations to provide angles of either 30 or 45 degrees to the mounting surface

FLEX CHANNEL - RECESSED/TALL (FLX777/888)

These two options suit varying installation requirements: A recessed channel for concealment within surfaces and a tall profile channel that reduces light spill. These two channels have a choice of clear, frosted or opal lenses. For channel dimensions, see page 32.



TO FIT THE FLEX ECO TAPE

tape will be placed.

- 1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.
- 3 Determine the length of tape required. If necessary, leave a gap at each end. Mark the positions at each end of the channel where the
 - Note: Flex Eco tape can only be cut every 4" (100mm) and this may mean that a precise length of Flex Eco tape cannot be achieved. Therefore it may be beneficial to center the tape within the channel to achieve an even distribution.
- 4 Cut the tape to the nearest marked cutpoint.
- 5 Note: If you are attaching the channel directly to a surface, see 'To surface mount directly' on page 25 **before** sticking the tape in place. Note: If you are using a feed or link cable, attach the connector **before** sticking the tape in place. Begin peeling the backing from the Flex Eco tape and carefully stick the Flex Eco tape into the channel, starting at the marked position.

IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

TO SURFACE MOUNT DIRECTLY

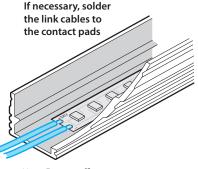
- 1 Before fitting the Flex Eco tape, determine where the channel is to be mounted.
- 2 Drill the required number of holes in the base of the channel and countersink them. *Note: A small* groove runs down the center of each channel base to provide a guide for your drill.
- 3 Mount the channel and use countersunk screws to secure it. IMPORTANT: The screw heads must lie flush with the channel base.
- 4 Fit the Flex Eco tape to the channel (see Page 24).
- 5 Carefully solder to the contact pads, if necessary (see page 5).

Drill countersunk holes and use screws that will lie flush with the channel base

TO SURFACE MOUNT USING BRACKETS

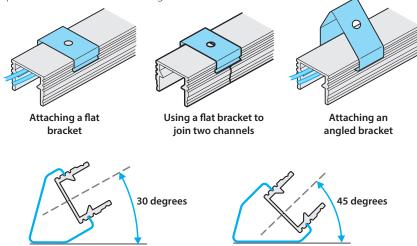
- 1 If necessary, carefully solder to the contact pads or use a feed/link cable (see page 5).
- 2 Fit the Flex Eco tape to the channel (see Page 24).
- 3 Attach two or more brackets (of the required type: *Flat brackets* or *Angled brackets*) to the mounting surface using either the supplied screws or others that are more appropriate to the surface type.

The angled bracket can be used in either of two orientations to provide an angle of either 30 or 45 degrees to the mounting surface (as shown below).



Note: Ensure sufficient strain relief where the cables enter the channel.

4 Clip the channel into the mounting brackets:

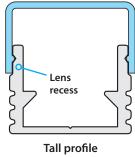


The angled bracket can be used in either of two orientations to provide angles of either 30 or 45 degrees to the mounting surface

TO FIT A LENS

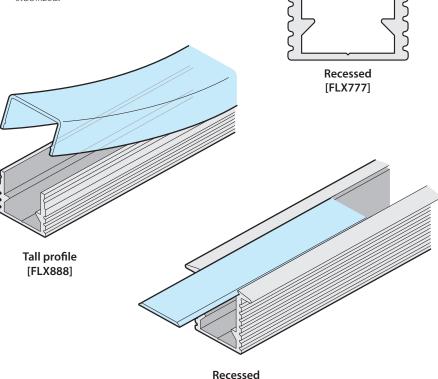
- 1 Measure the exact length of lens required between each end of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Depending on the channel type:
 - Tall profile: Place one end of the lens over the channel so that it slots into the 'Lens recess' (see right). Then run your hand along the length of the lens to gently push the remainder into place.
 - Recessed: Insert one end of the lens into the 'Lens recess' within the channel (see right). Then slide the remaining lens into the recess.

Note: FLX777 and FLX888 channel lenses are UV stabilized.



Tall profile [FLX888]

Lens recess

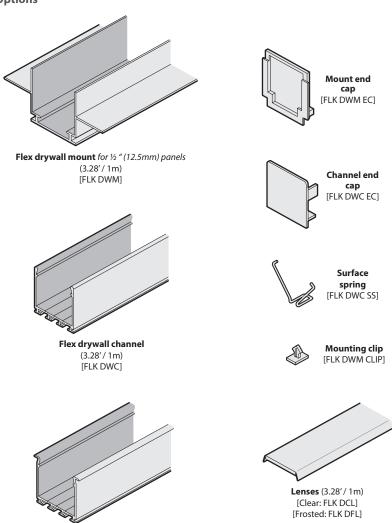


[FLX777]

FLEX DRYWALL CHANNEL (FLK DWM/DWC/DWF)

An adaptable system of channels for use with drywall installations. The main FLK DWM mount can be pre-installed during first fix while a choice of two inner channels (containing the Flex Eco tape plus connections) can be added later. Alternatively, a channel can be used alone and be installed directly on the drywall surface using simple springs. A choice of clear or frosted lenses are available. For channel dimensions, see page 32.

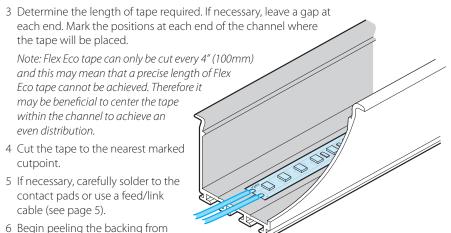
Options



Flex drywall channel with flange (3.28'/ 1m) [FLK DWF]

TO FIT THE FLEX ECO TAPE

- 1 If necessary, cut the channel to the length required. Ensure that any resulting burrs are removed.
- 2 Ensure the tape mounting surface within the channel is completely dry, clean and free of grease. If cleaning is required, please see page 4 for details.

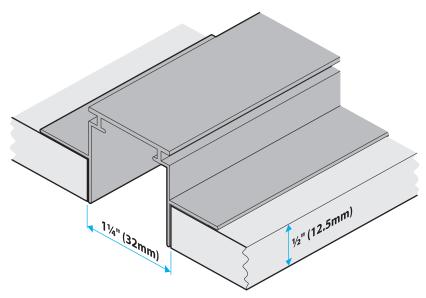


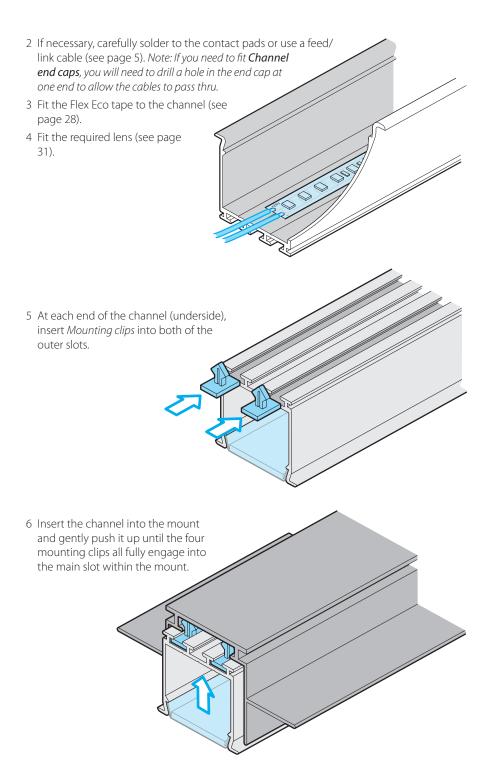
the Flex Eco tape into the channel, starting at the marked position. IMPORTANT: While pressing the Flex Eco tape into position, take care not to put excessive pressure on the components or connections.

TO RECESS A CHANNEL WITHIN A DRYWALL CEILING

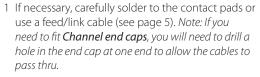
the Flex Eco tape and carefully stick

1 Make a gap within the drywall ceiling panels (measuring 1¼"/32mm wide x the length of the channel). Place the Flex drywall mount into the gap so the wings of the mount rest on the ceiling panels. Note: If required, fit Mount end caps at each end of the mount.



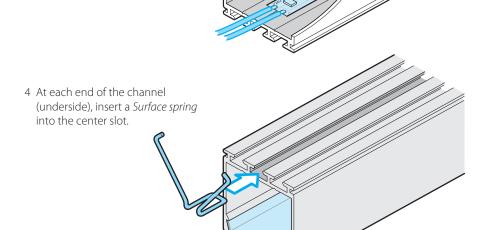


TO SURFACE MOUNT A CHANNEL ON A **DRYWALL CEILING**

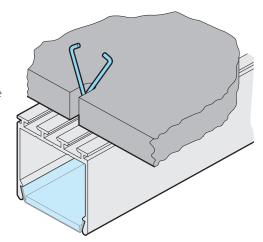


2 Fit the Flex Eco tape to the channel (see page

3 Fit the required lens (see page 31).

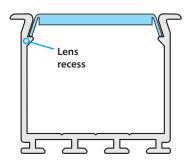


- 5 Measure the distance between the two springs and in the ceiling panels make two small holes to accommodate the springs.
- 6 At each end of the channel, squeeze the springs and insert them into the holes in the ceiling panel. Once inside, the springs should open out to keep the channel securely in position.

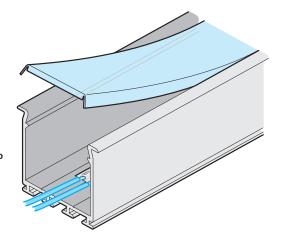


TO FIT A LENS

- 1 Measure the exact length of lens required between the ends of the channel.
- 2 Carefully cut the lens to length. Ensure that any resulting burrs are removed.
- 3 Insert one end of the lens so that it locates into the 'Lens recess' within the channel (see right).
- 4 Once the first part of the lens has correctly located, run your thumb gently along the length of the lens to push the remainder into place.



Locate the first section of lens into the channel and then run your thumb along it to push the remainder into place.



FURTHER INFORMATION

CHANNEL DIMENSIONS

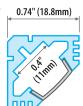
All channels and lenses are supplied in lengths of 3.28' (1m) except for FLX444, FLX777 and FLX888 (and their respective lenses) which are all supplied in lengths of 4'(1.21mm).

FLEX PENDANT CHANNEL

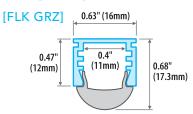


FLEX 45 DEGREE **CHANNEL**

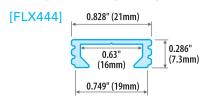
[FLK 45D]



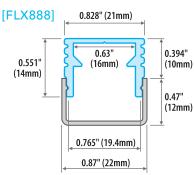
FLEX GRAZE CHANNEL



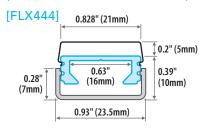
FLEX CHANNEL LOW PROFILE



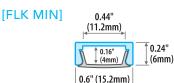
FLEX CHANNEL TALL PROFILE



FLEX CHANNEL LOW PROFILE (WITH LENS & CLIP ATTACHED)

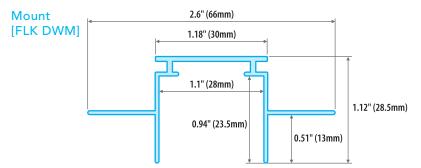


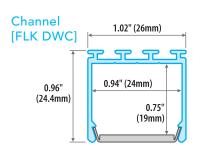
FLEX MINI CHANNEL

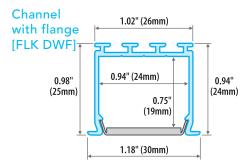


FLEX CHANNEL **RECESSED** 0.788" (20mm) [FLX777] 0.61" (15.5mm) 0.79" 0.87" (20mm) (22mm) 1.142" (29mm)

FLEX DRYWALL CHANNEL







FLEX ECO INTERIOR SPECIFICATIONS

Beam angle 120°

Color temperature (CCT) 2400K, 2700K, 3000K, 3500K or 4000K

Lumens 106 @ 4000K (1' section)

Efficacy (Im/W) 105 @ 4000K Color Rendering Index (CRI) >80 @ 4000K

Lumen maintenance (L₇₀) 50,000 hours (25°C max)

Operating voltage 24VDC

Power consumption 0.97W per foot 3.2W per meter

16W per 16.4' (5m) spool

Dimming control Pulse width modulation

Maximum overall length 16.4' (5m)

Ingress protection IP20 (dry location)

Dimensions (W x H x L) 0.4" x 0.12" x 16.4'

10 x 3 x 5000mm

Operating temperature 32°F to 104°F

0°C to 40°C

Housing Copper strip, white coating

3M™ VHB™ adhesive backing

Certifications





MOUNTING SURFACE ADVICE

The 3M™ VHB adhesive applied to the back of Flex Eco tapes provides adhesion to a wide variety of surfaces. Advice for the preparation of certain surfaces is given below.

WOOD, PARTICLE BOARD AND CEMENT SURFACES

Rough, porous or fibered materials such as wood, particleboard, cement, etc., have an open surface and require sealing to provide a unified surface for tape bonding. Common sealing materials include paint, varnish or other hard surface coatings. Fast drying 3M™ Rubber and Vinyl Spray 80 can also be used to unify the surface and improve the tape bond.

GLASS, STONE, CERAMIC AND RUBBER SURFACES

Glass, stone, ceramic or other siliceous materials are hydrophilic (water-loving) by nature. Normally, the hydrophilic nature makes pressure sensitive adhesive bond durability susceptible to change under high humidity or exposure to moisture. In basic terms, water vapor can undercut the tape bond and interfere with the normal adhesion forces. Silane coupling agents, added to the IPA/water cleaning solution, can help reduce the "water-loving" tendency of these surfaces and enhance the tape bond in high moisture environments.

COPPER, BRASS AND BRONZE SURFACES

Copper, brass, and bronze are prone to oxidation even after the tape is applied. To prevent a weakening of the bond, a lacquer or varnish should be applied to these surfaces. Be sure to test the tape bond to the sealer on a metal surface to verify good adhesion.

PVC AND RUBBER SURFACES

Flexible PVC (vinyl) contains plasticizers that can migrate into the tape and affect adhesion. 3M[™] Scotch-Grip[™] Plastic Adhesive 2262, thinned, can serve as a barrier to migration. Rubber materials (e.g. EPDM, neoprene) can have low surface energy and may also contain plasticizers and oils. These require the use of an adhesion promoter for stable bond strength. Test for compatibility with flexible PVC and rubber materials by aging bonded samples for a week at 150°F (66°C) and check for softening of the adhesive, discoloration or reduction in bond strength.

LIMITED PRODUCT WARRANTY

A. Acclaim Lighting[™] hereby warrants, to the original purchaser, Acclaim Lighting finished products to be free of manufacturing defects in material and workmanship for a standard period of:

• Fixtures: 5 Years (1,825 days) from the date of purchase.

• Drivers, power supplies and accessories: 5 Years (1,825 days) from the date of purchase.

• Flex Products: 3 Years (1,095 days) from the date of purchase.

• Controllers: 2 Years (730 days) from the date of purchase.

It is the owner's responsibility to establish the date and place of purchase and warranty terms by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Acclaim factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Acclaim Lighting will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Acclaim Lighting shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return there of. Acclaim reserves the right to replace the item with same or similar product at its discretion.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Acclaim concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Acclaim Lighting factory unless prior written authorization was issued to purchaser by Acclaim Lighting; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up nor do we guarantee as part of this warranty any lumen performance during period. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactures by Acclaim lighting. During the period specified above, Acclaim Lighting will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Acclaim Lighting under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Acclaim Lighting. At no time will installation or re-installation or products labor or liability costs will be assumed by Acclaim Lighting. All products covered by this warranty were manufactured after January 1, 2012, and bear identifying serial number marks to that effect.

E. Acclaim Lighting reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products describe above. Except to the extent prohibited by applicable law, all implied warranties made by Acclaim Lighting in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired.

F. Marine or extreme weather location applications using Acclaim lighting products are subject to a 2 year limited warranty and Acclaim must be notified prior to delivery of units for such applications so that preventative treatment can be made to the products to ensure proper performance and product life with a special marine code coating / sealing process at an additional cost.

G. The consumer's and or dealer's sole remedy shall be such repair or replacement as is expressly provide above; and under no circumstances shall Acclaim Lighting be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to Acclaim Lighting products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

www.acclaimlighting.com