FLEX ONE SO EXTERIOR™

ACCLAIM LIGHTING

PROJECT	FIRM	ORDER #	TYPE	QTY

The compact dimensions, UV-stabilized weather proofing and high output of **Flex One SO Exterior™** LED strips make them an ideal choice for a wide variety of signage, millwork and other applications in challenging environments.

Thanks to our careful binning policies, consistent color rendering is assured not only across the full length of every spool, but also between multiple batches. Tight emitter spacing minimizes gaps in output and the solid copper substrate ensures optimum heat transference and flexibility.

Ten silicone mount clips plus screws are supplied, while a range of aluminum channels are available to suit numerous applications. Flex One SO Exterior strips carry an ETL Sanitation Mark (ANSI/ NSF 2:2015), making them particularly suitable for use in restricted hygiene/food preparation areas.

AT A GLANCE

Optics

126°

Emitters

2700K   or   3000K   or   4000K

Mounting

See user guide for mounting details

x10

Power

Low voltage:
24VDC
via driver

Temperature

-40º F to 122º F
-40º C to 50º C

Protection

Ingress: **IP68**
Impact: **IK06**

Output

Up to
201 lumens
per linear foot

Cut points

6 emitters per section

0.98" (25mm)

See user guide for mounting details

CONFIGURE YOUR PRODUCT

FLEXOSE

Example final code: FLEXOSE27

Emitters:
27 = 2700K
3 = 3000K
4 = 4000K

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SPECIFICATIONS

Emitters	2700K, 3000K or 4000K
Beam angle	126°
Spool details	16.4' (5m), cut points every 0.98" (25mm)
Maximum run length	16.4' (5m) - 1 spool
Lumen maintenance	L_{70} 50,000 hours (@ 25º C)
Operating voltage	24VDC
Power consumption	Minimum of 2.43W per foot (40W per 16.4' spool) - see below for details
Connection	3.28' (1m) attached feed cable with bare tails (18 AWG)
Mounting	Ten silicone mounting clips plus screws included - see user guide for mounting details
	Optional aluminum channels available - see page 3
Material	Copper strip with UV-stabilized silicone coating
Ambient temperature range	-40º F to 122º F (-40º C to 50º C)
Ingress protection	IP68*, wet location and submersible
	UL approval currently limits submersible installation to non-human occupied and freshwater locations only. All cables must be landed in environmentally suitable junction boxes.
Impact protection	IK06, protected up to 1 joule impact
Warranty	3 years standard, 5 years optional (additional charge)
Weight	1 lbs (0.5 kg)
Dimensions	**L**x**W**x**H**: 16.4' x 0.47" x 0.18" (5000 x 12 x 4.5mm) plus feed-in end cap - see page 7
Certifications	c ETL us / ETL Intertek / CE / RoHS COMPLIANT

PHOTOMETRICS

For all available IES files, please visit acclaimlighting.com/flex-one-so-exterior

Color temperature	Lumens (per ft)	Max Candela	CRI	R9	CQS	TM30	Rf	Rg
2700K	151	46.1	95.0	76	85.9	87.6	87.6	92.9
3000K	154	46.5	95.7	78	87.8	87.8	87.8	93.7
4000K	201	58.0	96.4	87	92.4	87.5	87.5	95.2

POWER CONSUMPTION CHART

Length	1'	2	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16.4'
Power (total)	3W	6W	9W	12W	14W	16W	18W	20W	22W	24W	26W	28W	30W	32W	34W	40W
Power (per ft)	3 W/ft	3 W/ft	3 W/ft	3 W/ft	2.8 W/ft	2.66 W/ft	2.57 W/ft	2.5 W/ft	2.44 W/ft	2.4 W/ft	2.36 W/ft	2.33 W/ft	2.3 W/ft	2.28 W/ft	2.26 W/ft	2.43 W/ft

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RELATED COMPONENTS *(channel dimensions on page 8)*
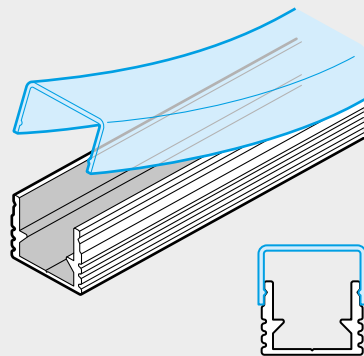
Flex channel low profile

A low profile channel for mounting flat or at an angle using optional brackets. Available in 4' (1.21m) lengths with a choice of clear, frosted or opal lenses.
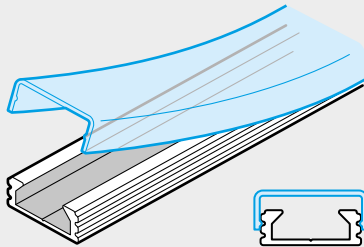
| Flex channel low profile:	4' (1.21m).........................**FLX444**
Lenses:	Clear 4' (1.21m) ....**FLX LP CL4**
	Frosted 4' (1.21m)..........**FLX LP FL4**
	Opal 4' (1.21m) ....**FLX LP OL4**
Accessories:	Flat/joiner bracket **FLX111**
	Angled bracket (x2)......**FLX113**
	End cap............................**FCLPEC1**

Flex channel tall profile

A tall-sided channel to limit light spill. Mounting can be flat or set at an angle using optional brackets. Available in 4' (1.21m) lengths with a choice of clear, frosted or opal lenses.

Flex channel tall profile:	4' (1.21m).........................**FLX888**
Lenses:	Clear 4' (1.21m) **FLX825**
	Frosted 4' (1.21m)..........**FLX813**
	Opal 4' (1.21m) **FLX801**
Accessories:	Flat/joiner bracket **FLX111**
	Angled bracket (x2)......**FLX113**

Flex channel recessed

A flanged deep channel to provide a neat finish when recessed within a surface. Available in 4' (1.21m) lengths with a choice of clear, frosted or opal lenses.
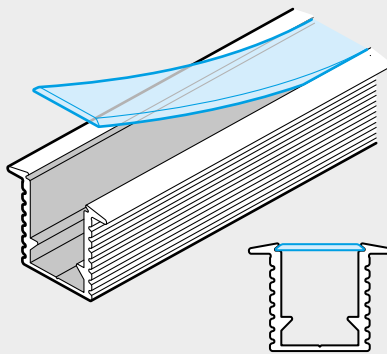
Flex channel recessed:	4' (1.21m).........................**FLX777**
Lenses:	Clear 4' (1.21m) **FLX727**
	Frosted 4' (1.21m)..........**FLX715**
	Opal 4' (1.21m) **FLX702**

	PROJECT		FIRM	ORDER #	TYPE	QTY

RELATED COMPONENTS *(channel dimensions on page 9)*

Flex dual channel

A box section channel with detachable back plate to allow invisible fixing to wall surfaces. The upper and lower surfaces of the main channel can hold up to four runs of strips to provide powerful simultaneous up and down lighting (or side to side when the channel is mounted vertically). Available in 3.28′ (1m) lengths.
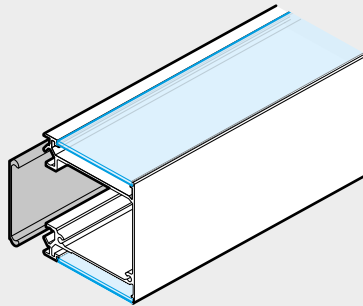
Flex dual channel:	3.28′ (1m).........................**FLK DUL**	
Lenses:	Clear 3.28′ (1m) ....**FLK DUL CL**	
	Frosted 3.28′ (1m)..........**FLK DUL FL**	
Accessories:	End cap............................**FLK DUL EC**	

Flex drywall channel

An adaptable system of channels for use with drywall exteriors in either recessed or surface mount configurations. Available in 3.28′ (1m) lengths with a choice of clear or frosted lenses.
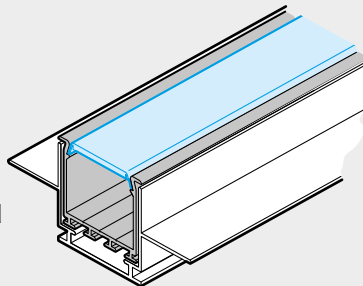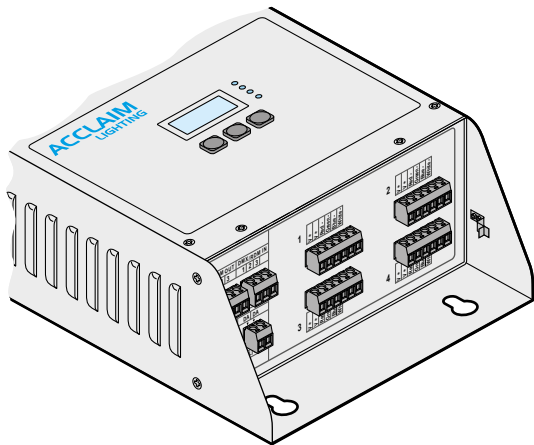
|	
Drywall mount:	3.28′ (1m).........................**FLK DWM**
Channel:	3.28′ (1m).........................**FLK DWC**
Channel with flange:	3.28′ (1m).........................**FLK DWF**
Lenses:	Clear 3.28′ (1m) ....**FLK DCL**
	Frosted 3.28′ (1m)..........**FLK DFL**
Accessories:	Mount end cap ....**FLK DWM EC**
	Channel end cap ....**FLK DWC EC**
	Surface spring ....**FLK DWC SS**
	Mounting clip ....**FLK DWM CLIP**

SCAN FOR PRODUCT PAGE

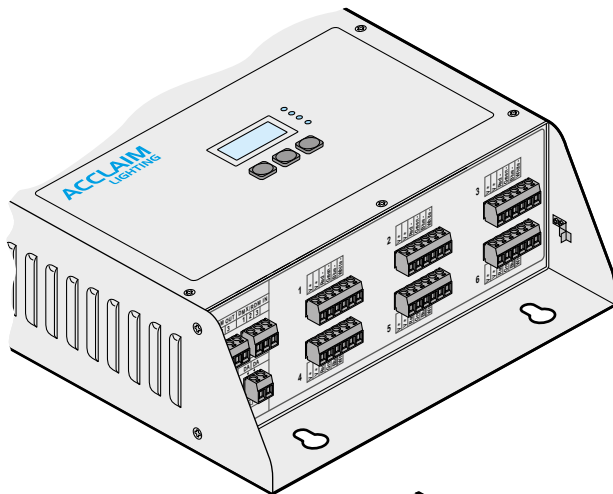## RELATED COMPONENTS

Drivers

AL Driver 200 C2

200W 24VDC
4 output ports
4 spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
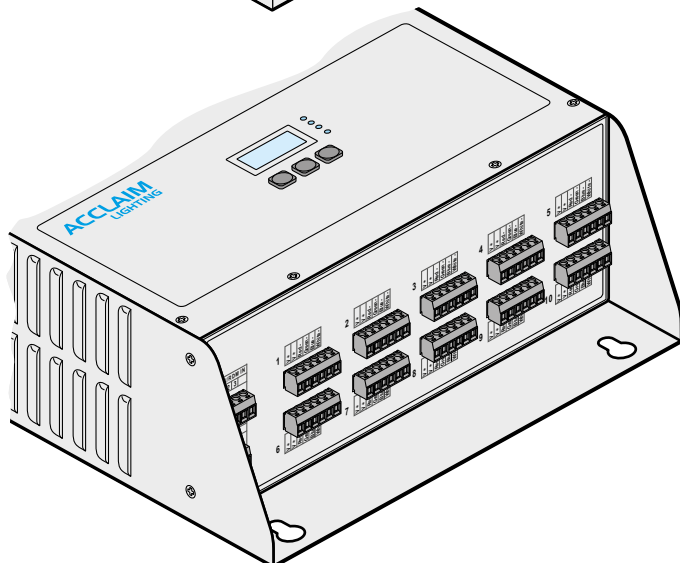100-277VAC 50/60Hz

Part #   **ALD-200-24 C2**
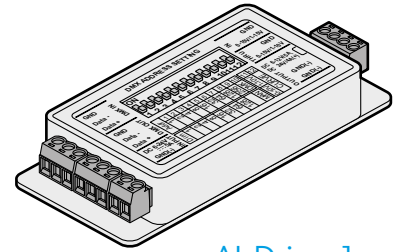
AL Driver 1

1 spool maximum
DMX or 0-10V
(sink or source)
6-24VDC input
(use in conjunction
with ALPS-series
24VDC power
supplies)

Part #   **ALD001**

AL Driver 400 C2

400W 24VDC
6 output ports
9 spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz

Part #   **ALD-400-24 C2**

AL Driver 800 C2

800W 24VDC
10 output ports
18 spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
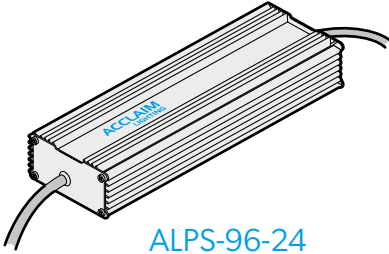
Part #   **ALD-800-24 C2**

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PAGE

FLEX ONE SO EXTERIOR™

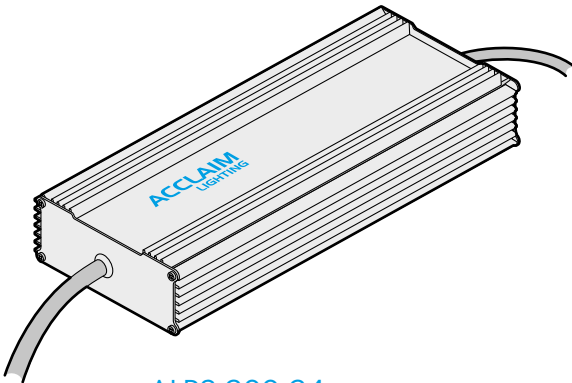| PROJECT		FIRM	ORDER #	TYPE	QTY

RELATED COMPONENTS

Power supplies (wet and dry locations)
(for use with single channel drivers or non dimming applications)

ALPS-96-24

96W 24VDC
2 spools maximum
IP66 ingress protection
100-277VAC 50/60Hz

Part # **ALPS-96-24**

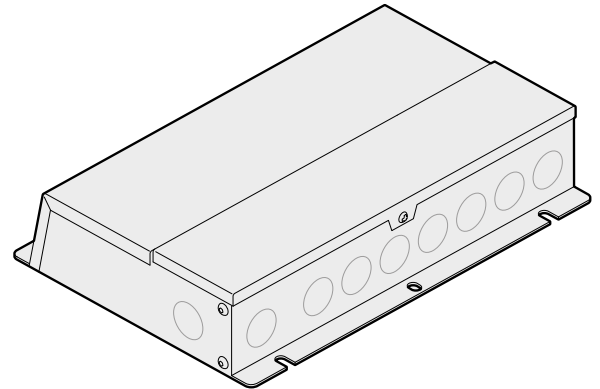#### ALPS-200-24

200W 24VDC
5 spools maximum
IP66 ingress protection
100-277VAC 50/60Hz

Part # **ALPS-200-24**

ALPS-400-24

400W 24VDC
10 spools maximum
IP66 ingress protection
100-277VAC 50/60Hz

Part # **ALPS-400-24**

Mains (and 0-10V) dimmable drivers
(to allow Flex One strips to be integrated into traditional high voltage dimmer circuits)

- Can accept dimmed mains from forward phase (leading edge/TRIAC) or reverse phase (trailing edge/ELV) dimmers.
- A 0-10V input (sink or source) is also provided for low voltage control when a stable mains supply is used.
- Produces a 1-100% dimming output.
- NEMA 3 enclosure (indoor/outdoor) 100-277VAC 50/60Hz
- Three variants are available:

  1x 96W 24VDC
  2 spools maximum

  Part # **MLE96-24DC-UD**

  2x 96W (192W total) 24VDC
  4 spools maximum

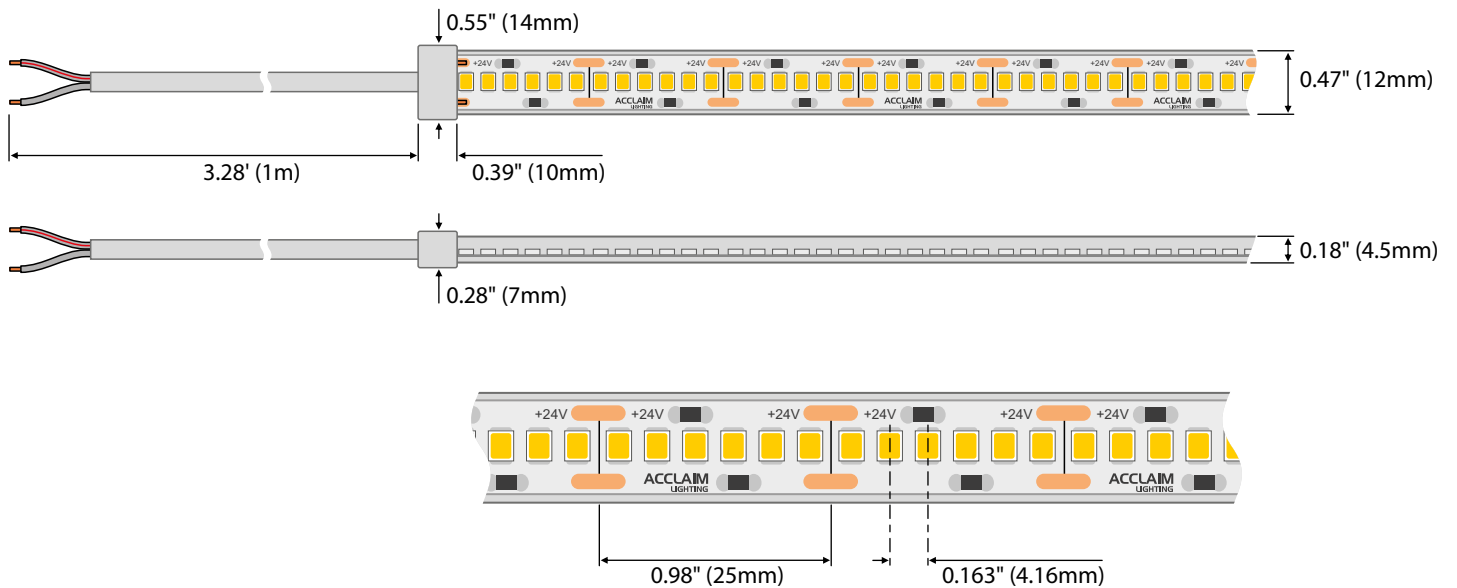 Part # **MLE192-24DC-UD**

  3x 96W (288W total) 24VDC
  6 spools maximum

  Part # **MLE288-24DC-UD**

SCAN FOR PRODUCT PAGE

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DIMENSIONS *(Strip)*

0.55" (14mm)

+24V ... +24V

0.47" (12mm)

3.28' (1m)

0.39" (10mm)

0.18" (4.5mm)

0.28" (7mm)

0.98" (25mm)

0.163" (4.16mm)

FEED WIRE GUIDE *(40W load / 1 spool)*

Maximum distance to Flex One strip	Required wire gauge
80' (24m)	18 AWG
200' (60m)	14 AWG
300' (91m)	12 AWG

SCAN FOR PRODUCT PAGE

PROJECT	FIRM	ORDER #	TYPE	QTY

DIMENSIONS *(Channels)*

Flex channel low profile
FLX444

0.94" (24mm)
0.28" (7mm)
0.63" (16mm)
0.39" (10mm)
0.828" (21mm)
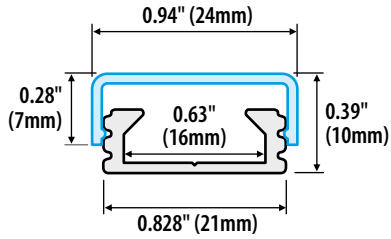
Flex channel tall profile
FLX888

0.87" (22mm)
0.765" (19.4mm)
0.47" (12mm)
0.551" (14mm)
0.63" (16mm)
0.394" (10mm)
0.828" (21mm)
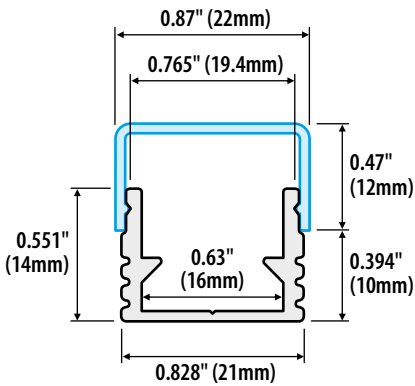
Flex channel recessed
FLX777

1.142" (29mm)
0.87" (22mm)
0.61" (15.5mm)
0.79" (20mm)
0.788" (20mm)

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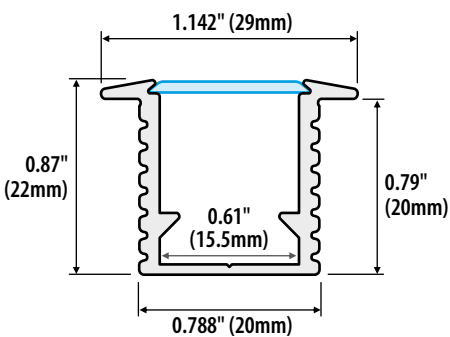
PROJECT		FIRM	ORDER #	TYPE	QTY

DIMENSIONS *(Channels)*

Flex dual channel
FLX DUL

1.81" (46mm)
1.63" (41.5mm)
2.4" (61mm)
0.35" (9mm)
1.77" (45mm)
2.24" (57mm)
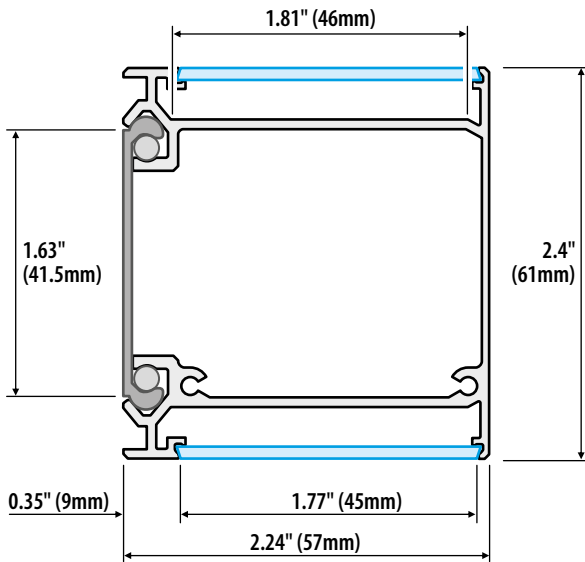
Flex drywall channel components

FLX DWM (Drywall mount)

2.6" (66mm)
1.18" (30mm)
1.1" (28mm)
0.94" (23.5mm)
0.51" (13mm)
1.12" (28.5mm)

FLX DWC (Drywall channel)

1.02" (26mm)
0.94" (24mm)
0.96" (24.4mm)
0.75" (19mm)
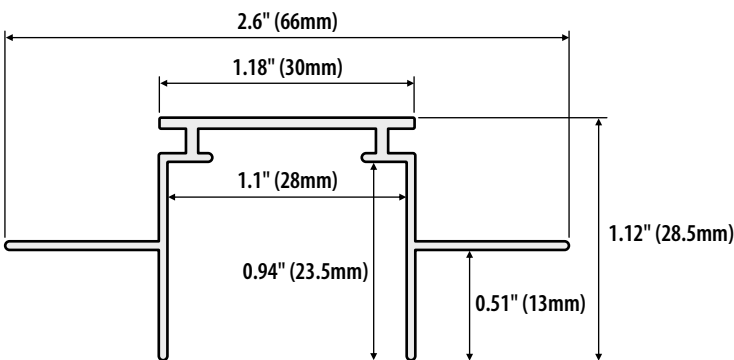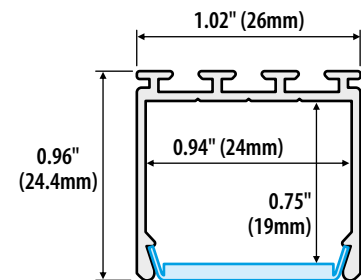
FLX DWC (Drywall channel with flange)

1.02" (26mm)
0.94" (24mm)
0.98" (25mm)
0.75" (19mm)
0.94" (24mm)
1.18" (30mm)
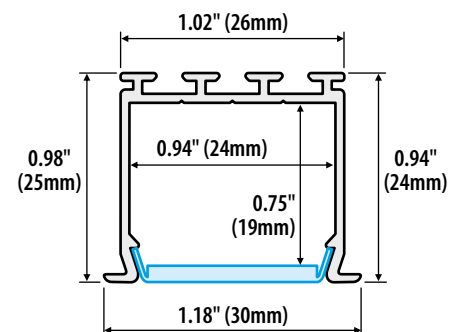
For full installation details, please refer to the **user guide**, available for free download here: