

PROJECT

FIRM

ORDER #

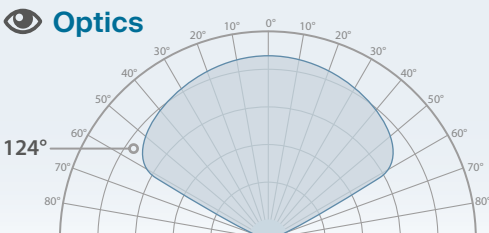
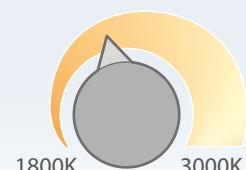
TYPE

QTY



Ai Flex Interior™ is a unique, dim-to-warm strip that can produce a near-perfect simulation of the red-shift effect associated with incandescent dimming. Carefully chosen LED emitters, with CCTs ranging from 1800K to 3000K, are arranged in clusters of four along the length of the Ai Flex tape. When controlled by one of the AL Driver Series drivers, the emitter clusters are cleverly coordinated to reproduce the much loved warmth and response of incandescent lighting. Our proprietary **Ai Dim™** (Acclaim Intelligent Dimming) technology is a close pairing of the Ai Flex emitter arrangement together with the coordination provided by our AL Driver units. The finely tuned dimming curve within each AL Driver unit orchestrates the multiple emitter types using just a single DMX dimming channel (8-bit and 16-bit modes are both supported).

At a glance

Optics 	Emitters  Ai Dim™ technology	Mounting 3M™ VHB™ adhesive backing tape See user guide for mounting details		
Power Low voltage: 24VDC via driver	Temperature 32° F to 104° F 0° C to 40° C	Output Up to 318 lumens per linear foot	Protection Ingress: IP20 Impact: IK00	Cut points  6 emitter clusters per section 6.53" (166mm)

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Specifications

Emitters	3000K to 1800K, adjustable via a single dimming channel (8-bit or 16-bit resolution)
Beam angle	124°
Spool details	16.4' (5m), cut points every 6.53" (166mm)
Maximum run length	16.4' (5m) - 1 spool
Lumen maintenance	L ₇₀ 50,000 hours (@ 25° C)
Operating voltage	24VDC
Power consumption	Minimum of 3.1W per foot (51W per 16.4' spool) - see below for details
Connection	3.28' (1m) attached feed cable with bare tails (20 AWG)
Mounting	3M™ VHB™ adhesive backing - see user guide for mounting details Optional aluminum channels available - see page 3
Material	Copper strip with white finish
Ambient temperature range	32° F to 104° F (0° C to 40° C)
Ingress protection	IP20, dry location
Impact protection	IK00, not impact protected
Warranty	3 years standard, 5 years optional (additional charge)
Weight	4.87oz (138g)
Dimensions	LxWxH: 16.4' x 0.39" x 0.07" (5000 x 10 x 1.8mm) - see page 7
Certifications	

Photometrics

For all available IES files, please visit acclaimlighting.com/ai-flex-interior

Color temperature	Lumens (per ft)	Max Candela	CRI	R9	CQS	TM30	Rf	Rg
10% (1800K)	42	13.6	81.9	14	70	83.2	83.2	93.2
50% (2100K)	144	46.6	83.1	14	78.6	91.6	84.5	95.2
100% (3000K)	318	102	83.0	10	81.9	83.8	83.8	95.5

Power consumption

Length	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16.4'
Power (total)	4W	8W	10W	12W	16W	19W	23W	26W	30W	33W	36W	39W	42W	45W	48W	51W
Power (per ft)	4 W/ft	4 W/ft	3.33 W/ft	3 W/ft	3.2 W/ft	3.16 W/ft	3.28 W/ft	3.25 W/ft	3.33 W/ft	3.3 W/ft	3.27 W/ft	3.25 W/ft	3.23 W/ft	3.21 W/ft	3.2 W/ft	3.1 W/ft

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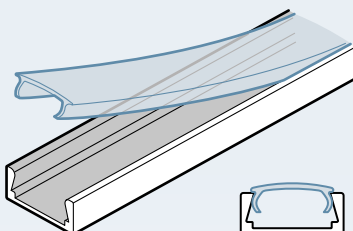
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Related components *(channel dimensions on pages 8 & 9)*

Flex mini channel

A very low profile channel with smooth outer walls and a choice of clear, frosted or opal lenses. Available in 3.28' (1m) or 6.56' (2m) lengths.



Flex mini channel:

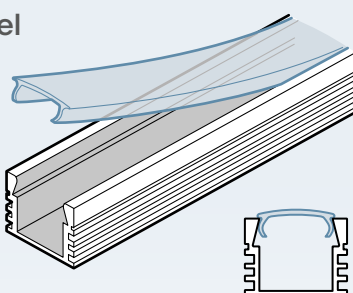
Lenses:

Accessories:

3.28' (1m)	FLX MIN 1M
6.56' (2m)	FLX MIN 2M
Clear 3.28' (1m)	FLX MIN CL 1M
Clear 6.56' (2m)	FLX MIN CL 2M
Frosted 3.28' (1m)	FLX MIN FL 1M
Frosted 6.56' (2m)	FLX MIN FL 2M
Opal 3.28' (1m)	FLX MIN OL 1M
Opal 6.56' (2m)	FLX MIN OL 2M
Mount clip	FLX MIN MC
End cap	FLX MIN EC
End cap with hole	FLX MIN ECH

Flex mini square channel

A low profile channel with a square overall cross section. Available in 3.28' (1m) or 6.56' (2m) lengths with a choice of clear, frosted or opal lenses.



Flex mini square channel:

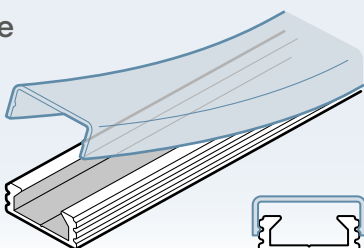
Lenses:

Accessories:

3.28' (1m)	FLX MSP 1M
6.56' (2m)	FLX MSP 2M
Clear 3.28' (1m)	FLX MIN CL 1M
Clear 6.56' (2m)	FLX MIN CL 2M
Frosted 3.28' (1m)	FLX MIN FL 1M
Frosted 6.56' (2m)	FLX MIN FL 2M
Opal 3.28' (1m)	FLX MIN OL 1M
Opal 6.56' (2m)	FLX MIN OL 2M
Mount clip	FLX MIN MC
End cap	FLX MSP EC
End cap with hole	FLX MSP ECH

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:

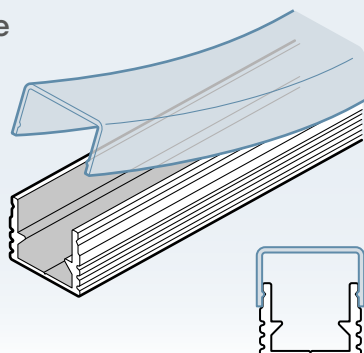
Lenses:

Accessories:

4' (1.21m)	FLX444
Clear 4' (1.21m)	FLX LP CL4
Frosted 4' (1.21m)	FLX LP FL4
Opal 4' (1.21m)	FLX LP OL4
Mount clip/joiner	FLX111
Angled brackets (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:

Lenses:

Accessories:

4' (1.21m)	FLX888
Clear 4' (1.21m)	FLX825
Frosted 4' (1.21m)	FLX813
Opal 4' (1.21m)	FLX801
Mount clip/joiner	FLX111
Angled brackets (x2)	FLX113

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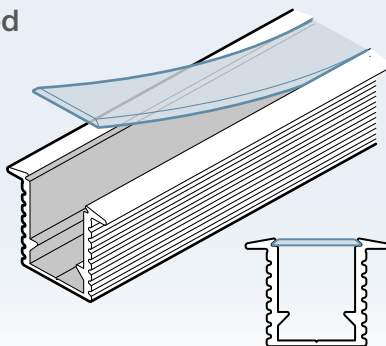
TYPE

QTY

Related components *(channel dimensions on pages 8 & 9)*

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**

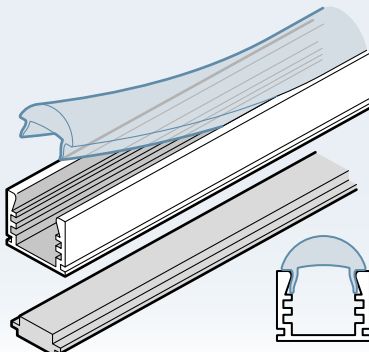
Accessories:

Mount clip/joiner..... **FLX111**

End cap **FCTPEC1**

Flex graze channel

Low profile channel with a movable mounting rail and rounded lens option to produce a range of beam angles suitable for grazing surfaces. Available in 3.28' (1m) lengths.



Flex graze channel & rail:

3.28' (1m) **FLK GRZ**

Lens:

Clear 3.28' (1m)..... **FLK GRZ L**

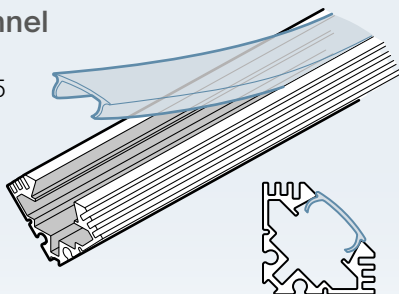
Accessories:

End cap **FLK GRZ EC**

Flat mount bracket..... **FLK SMB**

Flex 45 degree channel

A low profile channel which holds the strip at 45 degrees to the mounting surface. Can be wall mounted or suspended. Available in 3.28' (1m) and 6.56' (2m) lengths with a choice of clear, frosted or opal lenses.



Flex 45 degree channel:

3.28' (1m) **FLX 45D 1M**

6.56' (2m) **FLX 45D 2M**

Lenses:

Clear 3.28' (1m) **FLX 45D CL 1M**

Clear 6.56' (2m) **FLX 45D CL 2M**

Frosted 3.28' (1m) **FLX 45D FL 1M**

Frosted 6.56' (2m) **FLX 45D FL 2M**

Opal 3.28' (1m) **FLX 45D OL 1M**

Opal 6.56' (2m) **FLX 45D OL 2M**

Accessories:

Mount clip **FLX 45D MC**

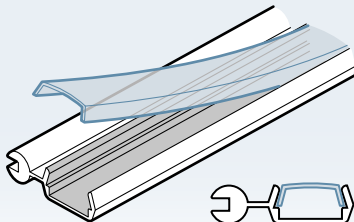
S. steel mount bracket..... **FLX 45D SMB**

End cap **FLX 45D EC**

End cap with hole..... **FLX 45D ECH**

Flex swivel channel

A low profile channel with swivel mounts to allow positioning at any angle. Available in 3.28' (1m) lengths with a choice of clear, frosted or opal lenses.



Flex swivel channel:

3.28' (1m) **FLK SWI**

Lenses:

Clear 3.28' (1m)..... **FLK MFC**

Frosted 3.28' (1m) **FLX MFL**

Opal 3.28' (1m) **FLX MOL**

Accessories:

Swivel mount bracket..... **FLK SWI MB**

End cap **FLK SWI EC**

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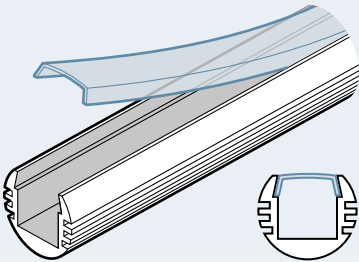
TYPE

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Related components *(channel dimensions on pages 8 & 9)*

Flex pendant channel

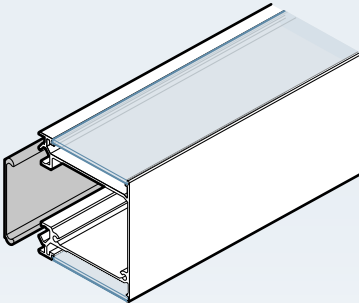
A neatly rounded channel, designed to be suspended by wires or rods - with the option of power delivery via the suspension wires/rods. Available in 3.28' (1m) lengths with a choice of clear, frosted or opal lenses.



Flex pendant channel:	3.28' (1m)	FLK PEN
Lenses:	Clear 3.28' (1m)	FLX MFC
	Frosted 3.28' (1m)	FLX MFL
	Opal 3.28' (1m)	FLX MOL
Accessories:	Conductive fastener	FLK PEN CF
	S. steel mount bracket	FLK SMB
	Steel rod 1.64' (0.5m)	FLK PEN SR05
	Steel rod 3.28' (1m)	FLK PEN SR1
	S Steel wire 3.28' (1m)	FLK PEN SSW1
	End cap	FLK PEN EC
	End cap with hole	FLK PEN ECH
	Conductive end cap	FLK PEN CEC

Flex dual channel

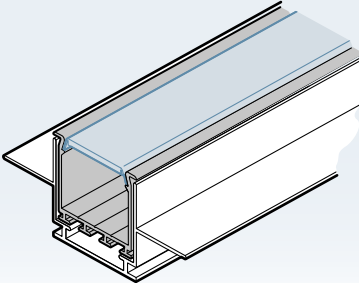
A box section channel with detachable back plate to allow invisible fixing to wall surfaces. The upper and lower surfaces of the main channel can hold up to four runs of strips to provide powerful simultaneous up and down lighting (or side to side when the channel is mounted vertically). Available in 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 interiors 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



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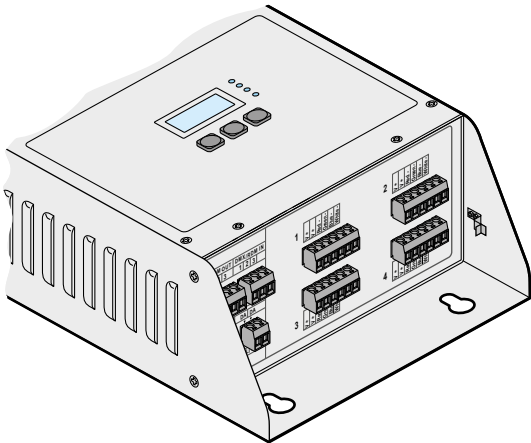
ORDER #

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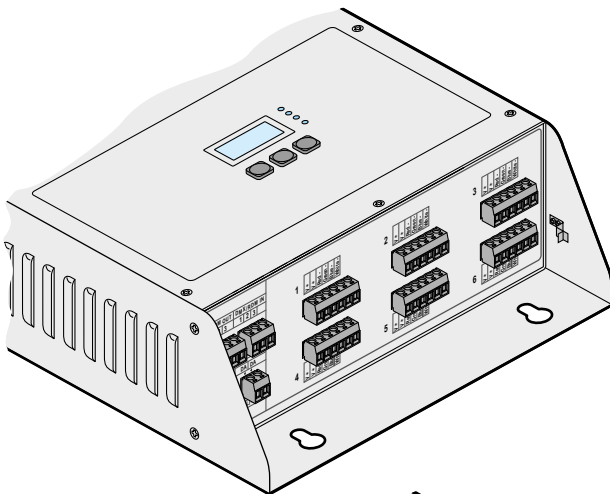
Related components

Drivers



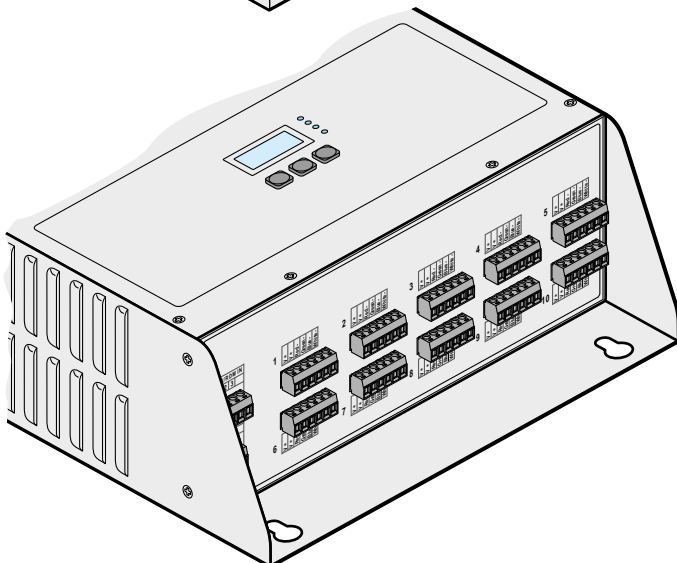
AL Driver 200 C2

200W 24VDC
4 output ports
3 spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
Part # **ALD-200-24 C2**



AL Driver 400 C2

400W 24VDC
6 output ports
6 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
10 spools maximum
DMX, DALI or 0-10V
(sink or source)
Class 2 compliant
100-277VAC 50/60Hz
Part # **ALD-800-24 C2**

SCAN
FOR
PRODUCT
PAGE



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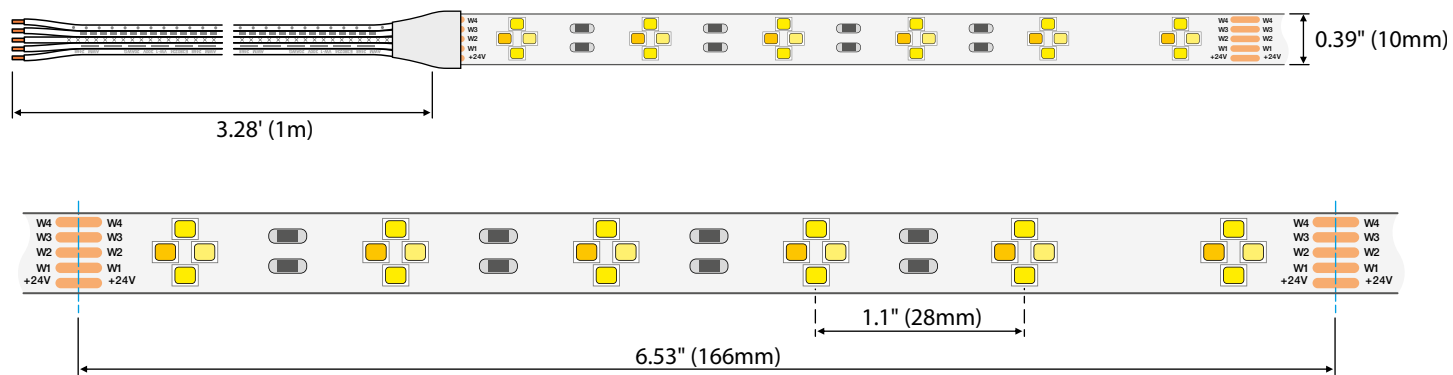
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Dimensions *(Strip)*



Feed wire guide *(51W load / 1 spool)*

Maximum distance to Flex One strip	Required wire gauge
60' (18m)	18 AWG (0.823mm ²)
150' (45m)	14 AWG (2.081mm ²)
250' (76m)	12 AWG (3.309mm ²)

In all cases, ensure that the voltage drop at the fixture end of the link cable is no greater than 8% (1.92V) of the original 24VDC supply.



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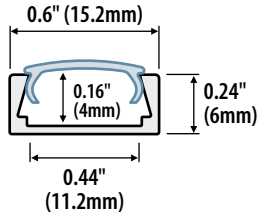
TYPE

QTY

Dimensions *(Channels)*

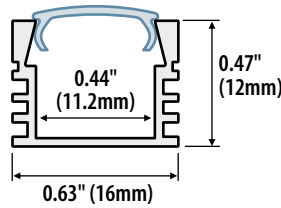
Flex mini channel

FLX MIN



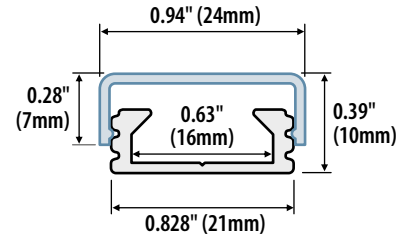
Flex mini square channel

FLX MSP



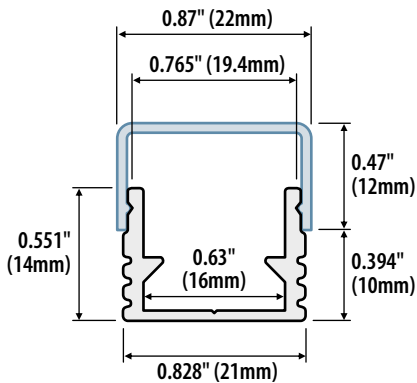
Flex channel low profile

FLX444



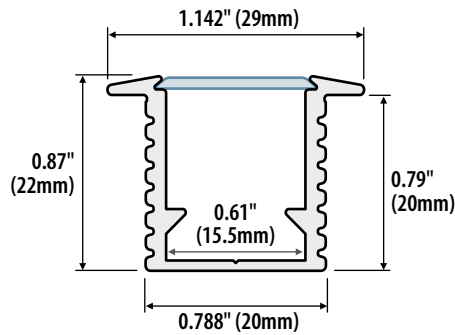
Flex channel tall profile

FLX888



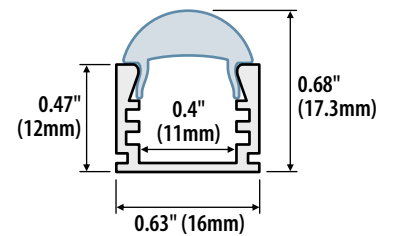
Flex channel recessed

FLX777



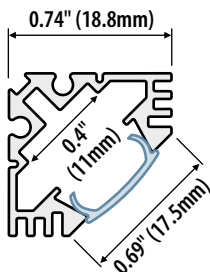
Flex graze channel

FLK GRZ



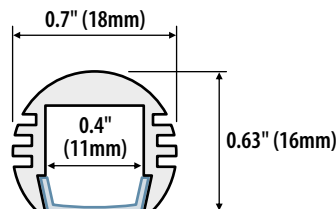
Flex 45 degree channel

FLX 45D



Flex pendant channel

FLK PEN



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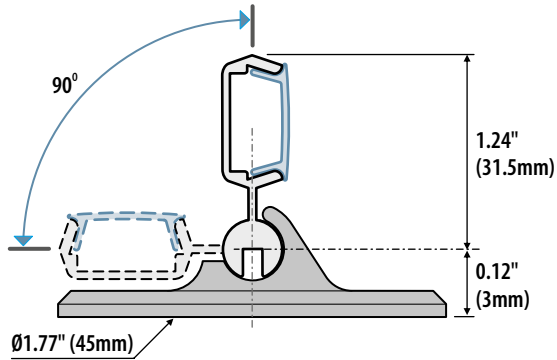
TYPE

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Dimensions *(Channels)*

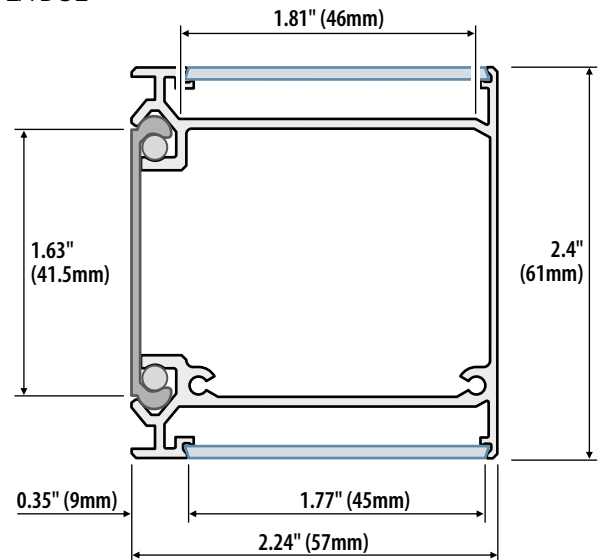
Flex swivel channel

FLX SWI



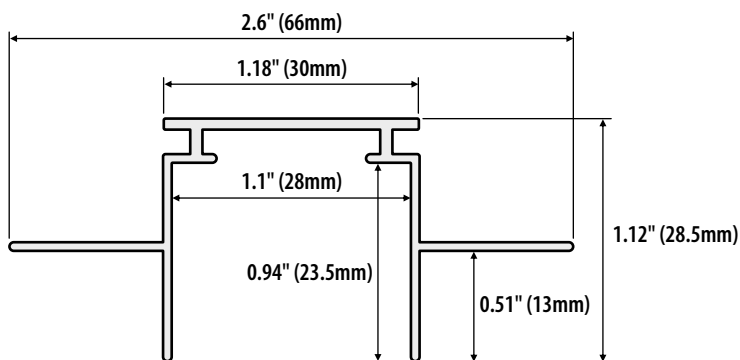
Flex dual channel

FLX DUL

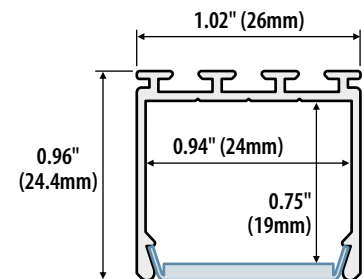


Flex drywall channel components

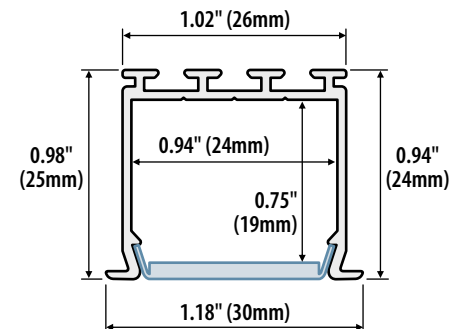
FLX DWM (Drywall mount)



FLX DWC
(Drywall
channel)



FLX DWF
(Drywall
channel
with flange)



For full
installation
details, please
refer to the
user guide,
available for free
download here:

