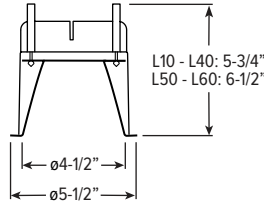


4DR LED 4.5" Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock™

- Williams TrimLock reflector retention system eliminates trim sag
- Die cast trim choices include flush, regressed or angled lens
- Industry-leading efficacies as high as 113 lm/W – ENERGY STAR® certified
- Fully room-side accessible
- Available on QuickShip

SPECIFICATIONS

- HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms adjust for ceiling thickness from 1/2" - 1-7/16" (see options for additional ceiling thicknesses).
- TRIMLOCK** – Innovative TrimLock reflector retention system ensures the trim remains flush with the ceiling plane.
- OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens
- ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24" O.C. marked spacing required for L50 and L60 lumen packages.
- LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - Suitable for wet location under covered ceiling when specified with WET/CC or TD options.
 - ENERGY STAR® certified in select configurations, see www.energystar.gov
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE:⁽¹⁾ 4DR - TL - L20/835 - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1

HOUSING

SERIES	LUMENS ⁽²⁾	CRI	CCT	OPTIONS	DRIVER ⁽³⁾	VOLTAGE
4DR - TL	L10 1,000lm	8 80	27 2700K	SCA__ Sloped ceiling adapter ⁽⁴⁾	DIM Dimming driver, 0-10V	UNV 120-277V
TrimLock	L15 1,500lm	9 90	30 3000K	ATH Airtight construction	DIM1 1% Dimming driver, 0-10V	347 347V ⁽⁵⁾
	L20 2,000lm		35 3500K	F Fuse		
	L30 3,000lm		40 4000K	EM/10W 10-watt emergency battery ⁽⁶⁾		
	L40 4,000lm			EM/10W/ITS 10-watt emergency battery with integral test switch ⁽⁷⁾		
	L50 5,000lm			CP Chicago plenum (CCEA) ⁽⁸⁾		
	L60 6,000lm			SDT Stepdown transformer ⁽⁹⁾		
				TC Adjustable mounting arms for 1-1/2" – 2-1/4" thick ceilings		

TRIM

TRIM TYPE	DISTRIBUTION ⁽¹⁰⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ⁽¹⁷⁾
L Flush lens	65° Open	SF 1/4" mud-in flange ⁽¹⁶⁾	CS Clear semi-specular anodize	MB Regressed lens trim with texture black splay and white flange ⁽¹⁸⁾
R Regressed lens	50° Flush		SG Satin-glow anodize	IP IP65 rated trim ⁽¹⁹⁾
A Angled lens ⁽¹¹⁾	50° Regressed		GD Gold anodize	AD Diffuse acrylic lens ⁽²⁰⁾
S Non-conductive flush lens for shower applications ⁽¹²⁾	M Medium ⁽¹³⁾		CG Champagne gold anodize	PD Diffuse 1/8" polycarbonate lens ⁽²¹⁾
	N Narrow ⁽¹⁴⁾		PW Pewter anodize	TD Diffuse polycarbonate lens media at top of open reflector ⁽²²⁾
	10° Open		SPC Clear specular anodize	WET/CC Wet location, covered ceiling listed ⁽²³⁾
	25° Flush		RG Rose gold anodize	
	25° Regressed		WH White texture powder coat	
	WW Wall wash ⁽¹⁵⁾		BL Black texture powder coat	
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	

MOUNTING

MOUNTING TYPE ⁽²⁴⁾	MOUNTING HARDWARE ⁽²⁵⁾
N Open pan for new construction	F1 2-Position fixed pan bracket, universal bar hanger included
I IC-rated enclosure for new construction ⁽²⁶⁾	F2 2-Position fixed pan bracket, t-bar bar hanger included
R Remodel kit ⁽²⁷⁾	

NOTES

- Housing, trim, and mounting ship separately.
- Lumen output based on O trim type, W distribution and CS finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 4 for ADDITIONAL DRIVER OPTIONS.
- 9" aperture, specify degrees of slope in 5° increments, 05°-30°, see page 4 for SLOPED CEILING ADAPTOR DETAILS. N Mounting Type only.
- Not available with EM batteries
- N Mounting Type only.
- Not available with WET/CC. N Mounting Type and O Trim Type only, requires alternate construction and trim retention, see page 5 for MOUNTING TYPE DETAILS.
- I Mounting Type required.
- May be required for 347V, see product builder at hew.com.
- Beam angle based on CS or WH reflector finish.
- Available with WW Distribution only.
- W Distribution, OF Flange Type, WH Reflector Finish only. Only available with AD diffuse acrylic lens, standard. IP and WET/CC options standard.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- Not available with lumen stops L50 and higher when specified with flush or regressed trim types.
- O and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 4 for FLANGE TYPE DETAILS, not available with CP, ATH or IP options.
- O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- R Trim Type only.
- L and R Trim Types only.
- L and R Trim Types only. Wide distribution only.
- L and R Trim Types only. Wide distribution only.
- O Trim Type only. WET/CC standard.
- Reduces lumen output, use .85 multiplier.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS
- Specify for N and I Mounting Types only. Additional mounting hardware options available, see page 5 for MOUNTING HARDWARE DETAILS.
- L20 lumen package max. L30 available, wide distribution only for lensed trims.
- Also used in new construction sheetrock ceilings.



4DR LED 4.5" Downlight – Round

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1027	9.0	113.6
	M	999	9.0	110.5
	N	1000	9.0	110.6
L15	W	1466	13.9	105.8
	M	1471	13.9	106.2
	N	1473	13.9	106.3
L20	W	1995	19.8	100.5
	M	2002	19.8	101.0
	N	2004	19.8	101.1
L30	W	2985	27.8	107.3
	M	2900	27.8	104.2
	N	2734	27.8	98.3
L40	W	3979	38.0	104.7
	M	3865	38.0	101.7
	N	3644	38.0	95.9
L50	W	5124	45.2	113.4
	M	4956	45.2	109.6
	N	4818	45.1	106.8
L60	W	6157	58.6	105.0
	M	5955	58.6	101.6
	N	5789	58.6	98.8

FLUSH LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	674	9.0	74.6
	M	895	9.0	99.0
	N	914	9.0	101.2
L15	W	994	13.9	71.7
	M	1319	13.9	95.1
	N	1347	13.9	97.2
L20	W	1352	19.8	68.3
	M	1794	19.8	90.6
	N	1833	19.8	92.6
L30	W	2022	27.8	72.7
	M	2683	27.8	96.5
	N	2741	27.8	98.6
L40	W	2695	38.0	70.9
	M	3577	38.0	94.1
	N	3654	38.0	96.2
L50	W	3364	45.2	74.4
	M	4464	45.2	98.8
	N	4561	45.1	101.1
L60	W	4042	58.6	69.0
	M	5363	58.6	91.5
	N	5480	58.6	93.5

REGRESSED LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	660	9.0	73.0
	M	895	9.0	99.1
	N	882	9.0	97.7
L15	W	972	13.9	70.2
	M	1319	13.9	95.2
	N	1300	13.9	93.8
L20	W	1323	19.8	66.2
	M	1795	19.8	90.8
	N	1769	19.8	88.5
L30	W	1979	27.8	71.1
	M	2685	27.8	96.5
	N	2646	27.8	95.1
L40	W	2638	38.0	69.4
	M	3579	38.0	94.2
	N	3527	38.0	92.8
L50	W	3292	45.2	72.8
	M	4466	45.2	98.8
	N	4401	45.1	97.6
L60	W	3955	58.6	67.5
	M	5366	58.6	91.5
	N	5289	58.6	90.2

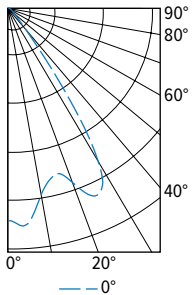
MULTIPLIER TABLES

	COLOR TEMPERATURE		OPEN REFLECTOR FINISH		
	CCT	CONVERSION FACTOR	CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
80 CRI	2700K	0.95	CS	Clear semi-specular	1.00
	3000K	0.96	SG	Satin-glow	0.92
	3500K	1.00	GD	Gold	0.93
	4000K	1.01	CG	Champagne Gold	0.96
90 CRI	2700K	0.74	PW	Pewter	0.86
	3000K	0.85	SPC	Specular	1.02
	3500K	0.90	RG	Rose Gold	0.88
	4000K	0.91	WH	White, textured	0.89
			BL	Black, textured	0.79

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

PHOTOMETRY

4DR-TL-L20/835-DIM-UNV-OW-OF-CS Report #: 12316380.01; 06/18/18 | Total Luminaire Output: 1995 lumens; 19.8 Watts | Efficacy: 100.5 lm/W | 82.7 CRI; 3604K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2166	
	5	2190	144
	15	1746	302
	25	2051	464
	35	376	66
	45	57	18
	55	17	6
	65	4	2
	75	1	0
	85	0	0
	90	0	

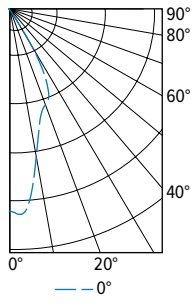
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1926	97
	0 - 60	1989	100
	0 - 90	1995	100
	0-180	1995	100



4DR LED

4.5" Downlight – Round

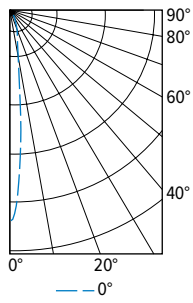
4DR-TL-L20/835-DIM-UNV-OM-OF-CS Report #: 12316380.04; 06/04/18 | Total Luminaire Output: 2002 lumens; 19.8 Watts | Efficacy: 101.0 lm/W | 82.8 CRI; 3600K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4051	
	5	4009	249
	15	2312	353
	25	1790	365
	35	157	29
	45	36	11
	55	8	3
	65	2	1
	75	1	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1962	98
	0-60	1999	100
	0-90	2002	100
	0-180	2002	100

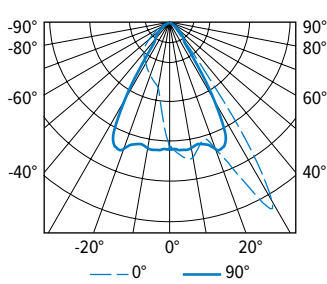
4DR-TL-L20/835-DIM-UNV-ON-OF-CS Report #: 12316380.05; 06/07/18 | Total Luminaire Output: 2004 lumens; 19.8 Watts | Efficacy: 101.1 lm/W | 82.8 CRI; 3587K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	21310	
	5	10690	415
	15	2372	322
	25	912	199
	35	89	10
	45	10	3
	55	2	1
	65	1	0
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1993	100
	0-60	2003	100
	0-90	2005	100
	0-180	2005	100

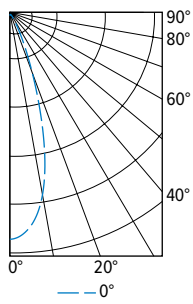
4DR-TL-L20/835-DIM-UNV-OWW-OF-CS Report #: 12316380.06; 06/11/18 | Total Luminaire Output: 1131 lumens; 19.8 Watts | Efficacy: 57.2 lm/W | 82.6 CRI; 3596K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1036	1036	1036	1036	1036	
	5	1105	1057	1053	805	713	65
	15	1000	993	1037	443	488	127
	25	1550	1154	1030	364	408	194
	35	434	258	223	305	340	74
	45	67	62	136	242	261	54
	55	30	28	70	143	144	33
	65	21	18	30	74	75	18
	75	7	5	11	36	34	7
	85	0	0	1	5	0	0
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	875	77
	0 - 60	1066	94
	0 - 90	1131	100
	0 - 180	1131	100

4DR-TL-L20/835-DIM-UNV-LM-OF-WH Report #: 1216380.09; 06/11/18 | Total Luminaire Output: 1794 lumens; 19.8 Watts | Efficacy: 90.6 lm/W | 82.6 CRI; 3549K CCT



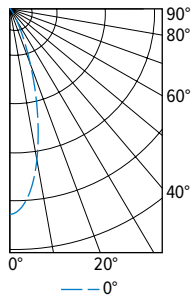
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	4642	
	5	4443	297
	15	2727	340
	25	737	132
	35	193	50
	45	88	32
	55	56	23
	65	34	15
	75	17	7
	85	3	1
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1618	90
	0-60	1738	97
	0-90	1794	100
	0-180	1794	100



4DR LED 4.5" Downlight – Round

4DR-TL-L20/835-DIM-UNV-RM-OF-WH Report #: 12316380.14; 06/12/18 | Total Luminaire Output: 1795 lumens; 19.8 Watts | Efficacy: 90.8 lm/W | 82.7 CRI; 3546K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE		ZONAL LUMENS
	0°		
0			5176
5			4824
15			2680
25			786
35			194
45			75
55			42
65			22
75			9
85			2
90			0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0-40	1663	93
	0-60	1761	98
	0-90	1796	100
	0-180	1796	100

ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L40 max for DMX driver, L40 max for Lutron drivers, L50 max for ELDO drivers. 347V may require stepdown transformer, see product builder at hew.com.

CATALOG NUMBER	DESCRIPTION
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DMX	0.1% dimming driver for DMX controls
LTE LINE	Lutron Hi-Lume® A-Series 1% dimming driver for forward phase line voltage controls (120V only)
LDE1	Lutron EcoSystem® H-Series 1% dimming driver for EcoSystem® controls
LDE5	Lutron EcoSystem® 5-Series 5% dimming driver for EcoSystem® controls
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

TRIMLOCK DETAILS

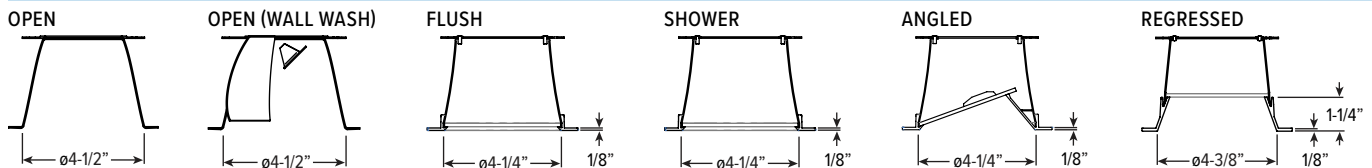


SLOPED CEILING ADAPTOR DETAILS

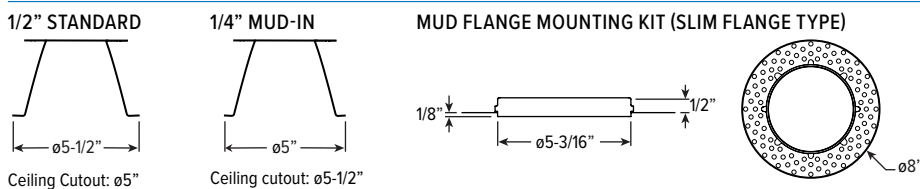
LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
L10 - L30	8-13/16"	8-15/16"	9"	8-15/16"	8-7/8"	8-11/16"	9-1/4"
L40 - L60	9-9/16"	9-11/16"	9-11/16"	9-5/8"	9-1/2"	9-5/16"	10"

15° Shown

TRIM TYPE DETAILS

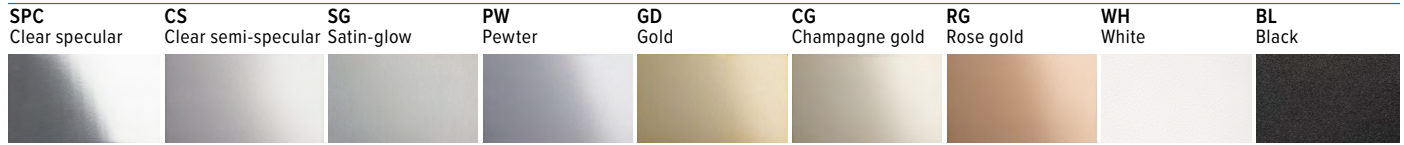


FLANGE TYPE DETAILS



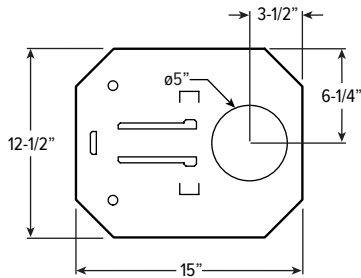
4DR LED 4.5" Downlight – Round

REFLECTOR FINISH DETAILS

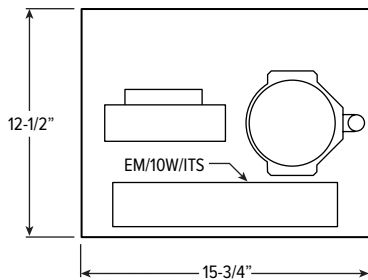


MOUNTING TYPE DETAILS

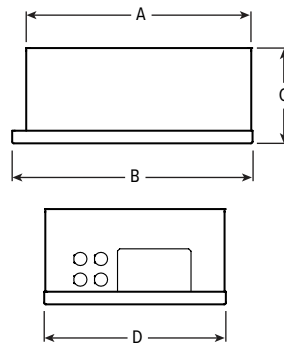
NEW CONSTRUCTION



NEW CONSTRUCTION WITH EM/10W/ITS

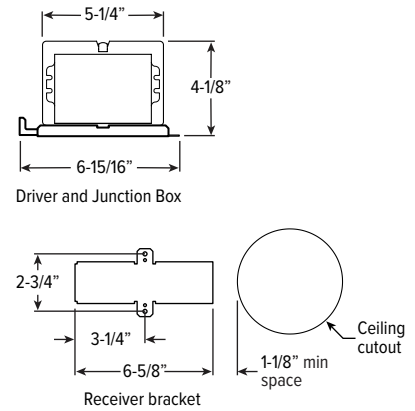


IC-RATED



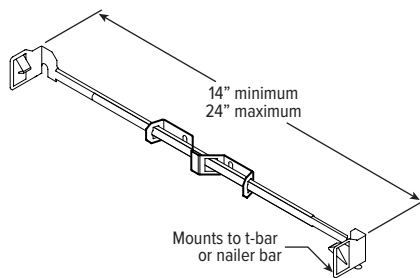
LUMENS	LENGTH			
	A	B	C	D
L10 - L20	15-3/16"	16"	6-3/8"	12-1/8"
L30	16-5/8"	17-1/2"	7-7/8"	14"

REMODEL

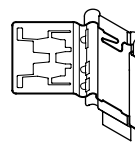


MOUNTING HARDWARE DETAILS

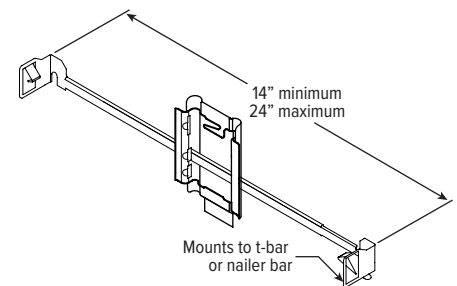
F1 2-Position fixed pan bracket, universal bar hanger included



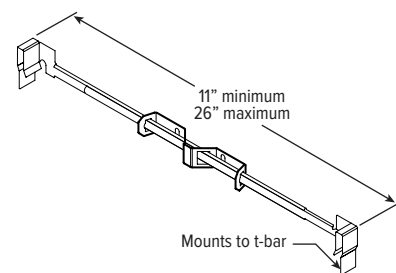
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type)



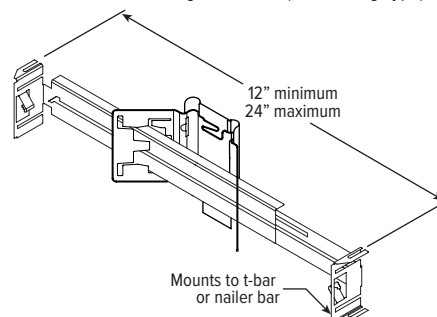
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



F2 2-Position fixed pan bracket, t-bar bar hanger included



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included

