

CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

TrimLock®

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control

SYSTEM REQUIREMENTS

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See hew.com/poe for details

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. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>50,000 hours. Low-voltage DC fixture, to be fed by Class 2 power supply. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- 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 P46 and P62 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.
 - 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: 6DR - TL - P29/835 - OPTIONS - POE N - OW - OF - CS - TRIM OPTIONS - N - F1
 HOUSING TRIM MOUNT.

HOUSING

SERIES	LUMENS ⁽¹⁾	CRI	CCT	OPTIONS ⁽²⁾	CONTROL ⁽³⁾
6DR - TL	P16 1,600lm	8 80	27 2700K	SCA__ Sloped ceiling adapter ⁽⁵⁾	POE N Power over Ethernet network node
TrimLock	P29 2,900lm	9 90 ⁽⁴⁾	30 3000K	ATH Airtight construction	POE D Power over Ethernet device node
	P46 4,600lm		35 3500K	CP Chicago plenum (CCEA) ⁽⁶⁾	
	P62 6,200lm		40 4000K	TC Adjustable mounting arms for 1-1/2"–2-1/4" thick ceilings	
			50 5000K		
			TW Tunable white (80 CRI, 2700K–5000K)		

TRIM ⁽⁷⁾

TRIM TYPE	DISTRIBUTION ⁽⁸⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	Open trim types	MWT Textured white trim flange ⁽¹⁵⁾
L Flush lens	65° Open	SF 1/4" mud-in flange ⁽¹⁴⁾	CS Clear semi-specular anodize	IP IP65 rated trim ⁽¹⁶⁾
R Regressed lens	55° Flush		SG Satin-glow anodize	AD Diffuse acrylic lens ⁽¹⁷⁾
A Angled lens ⁽⁹⁾	55° Regressed		GD Gold anodize	PD Diffuse 1/8" polycarbonate lens ⁽¹⁸⁾
S Non-conductive flush lens for shower applications ⁽¹⁰⁾	M Medium ⁽¹¹⁾		CG Champagne gold anodize	TD Diffuse polycarbonate lens media at top of open reflector ⁽¹⁹⁾
	35° Open		PW Pewter anodize	WET/CC Wet location, covered ceiling listed
	35° Flush		SPC Clear specular anodize	AM Anti-microbial ⁽²⁰⁾
	N Narrow ⁽¹²⁾		RG Rose gold anodize	
	10° Open		WH White texture powder coat	
	25° Flush		BL Black texture powder coat	
	25° Regressed		MB Black texture splay with white flange ⁽²¹⁾	
	WW Wall wash ⁽¹³⁾			
			Lens trim types	
			CS Clear semi-specular powder coat	
			WH White texture powder coat	
			BL Black texture powder coat	
			MB Black texture splay with white flange ⁽²¹⁾	

MOUNTING

MOUNTING TYPE ⁽²²⁾

- N Open pan for new construction
- I IC-rated enclosure for new construction ⁽²⁴⁾
- R Remodel kit ⁽²⁵⁾

MOUNTING HARDWARE ⁽²³⁾

- F1 Integral 2-position fixed pan bracket, universal bar hanger included ⁽²⁶⁾
- BA1 Adjustable butterfly pan bracket, bar hanger not included ⁽²⁷⁾
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included ⁽²⁸⁾

NOTES

- Static white lumen output based on O trim type, W distribution and CS finish, 3500K/80CRI. See page 2 for FIXTURE PERFORMANCE DATA.
- See hew.com/poe for compatible sensors & switches.
- For additional PoE info, see hew.com/poe
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- 11-1/2" aperture, specify degrees of slope in 5° increments, 05°-30°. See page 4 for SLOPED CEILING ADAPTOR DETAILS. Not available with ATH or TC options. N Mounting Type only. Not available with WET/CC.
- I Mounting Type required.
- Trim ships separately.
- Beam angle based on W distribution with CS or WH reflector finish. See page 2 for FIXTURE PERFORMANCE DATA.
- Available with WW Distribution only
- W Distribution, OF Flange Type, and WH Reflector Finish only. Standard with AD diffuse acrylic lens. IP and WET/CC options standard.
- Not available with lumen stops P46 and higher when specified with flush or regressed trim types.
- Not available with lumen stops P46 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 ATH or IP options.
- Not available with WH Reflector Finish, L or S Trim Types.
- L and R trim types only.
- Not available with O trim type. W distribution only.
- Not available with O trim type. W distribution only.
- O Trim Type only. WET/CC standard.
- WH and BL Reflector Finishes only. Not available with S Trim Type.
- R Trim Type only. Not available with MWT.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 5 for MOUNTING TYPE DETAILS.
- Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
- P16 lumen package max. P29 available, wide distribution only for lensed trims.
- Also used in new construction sheetrock ceilings. P29 lumen package max.
- N and I Mounting Types only.
- N Mounting Type only.
- N Mounting Type only.

FIXTURE PERFORMANCE DATA

STANDARD

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1611	12.3	131.5
	M	1563	12.3	127.6
	N	1495	12.3	122.1
P29	W	2947	25.0	117.9
	M	2855	25.0	114.0
	N	2731	25.0	109.0
P46	W	4582	37.5	122.2
	M	4442	37.5	118.5
	N	4252	37.5	113.4
P62	W	6158	50.0	123.2
	M	5970	50.0	119.4
	N	5715	50.0	114.3

TUNABLE WHITE

OPEN REFLECTOR TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1343	12.3	109.6
	M	1303	12.3	106.4
	N	1246	12.3	101.7
P29	W	2728	25.0	109.1
	M	2645	25.0	105.8
	N	2531	25.0	101.2
P46	W	4070	37.5	108.5
	M	3945	37.5	105.2
	N	3776	37.5	100.7
P62	W	4721	43.5	108.5
	M	4576	43.5	105.2
	N	4381	43.5	100.7

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1344	12.3	109.7
	M	1449	12.3	118.3
	N	1457	12.3	119.0
P29	W	2454	25.0	98.2
	M	2645	25.0	105.8
	N	2661	25.0	106.4
P46	W	3818	37.5	101.8
	M	-	-	-
	N	-	-	-
P62	W	5145	50.0	102.9
	M	-	-	-
	N	-	-	-

FLUSH LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1120	12.3	91.4
	M	1207	12.3	98.6
	N	1215	12.3	99.2
P29	W	2273	25.0	90.9
	M	2450	25.0	98.0
	N	2464	25.0	98.6
P46	W	3400	37.5	90.7
	M	-	-	-
	N	-	-	-
P62	W	3944	43.5	90.7
	M	-	-	-
	N	-	-	-

REGRESSED LENS TRIM TYPE

	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1301	12.3	106.2
	M	1409	12.3	115.0
	N	1420	12.3	115.9
P29	W	2375	25.0	95.0
	M	2573	25.0	103.9
	N	2593	25.0	103.7
P46	W	3695	37.5	98.5
	M	-	-	-
	N	-	-	-
P62	W	4980	50.0	99.6
	M	-	-	-
	N	-	-	-

REGRESSED LENS TRIM TYPE

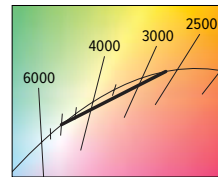
	DISTRIBUTION	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
P16	W	1084	12.3	88.5
	M	1175	12.3	95.9
	N	1184	12.3	96.6
P29	W	2200	25.0	88.0
	M	2383	25.0	95.3
	N	2402	25.0	96.1
P46	W	3291	37.5	87.8
	M	-	-	-
	N	-	-	-
P62	W	3817	43.5	87.8
	M	-	-	-
	N	-	-	-

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.92	0.83
	3000K	0.98	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	1.02	0.98
90 CRI	2700K	0.76	-
	3000K	0.79	-
	3500K	0.82	-
	4000K	0.84	-
	5000K	0.88	-

	REFLECTOR FINISH	
	CATALOG NUMBER	CONVERSION FACTOR
O TRIM	CS	1.00
	SG ¹	0.92
	GD	0.93
	CG	0.96
	PW	0.86
	SPC	1.02
	RG	0.88
	WH ¹	0.89
R TRIM	WH	1.00
	CS	0.98
	BL	0.79

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
S	0.85
AD	0.85
PD	0.85
TD	0.75
WET/CC ²	0.85



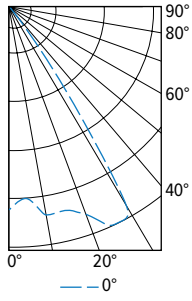
- Distribution will also be affected, consult factory.
- Use multiplier when specified with O Trim Type.
 - Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
 - Standard results based on 3500K/80 CRI, actual lumens may vary +/-5%
 - Tunable white results based on 4000K/80 CRI, actual lumens may vary +/-5%
 - Use multiplier tables to calculate additional options.



6DR PoE | tunable WHITE 6" Downlight – Round

PHOTOMETRY

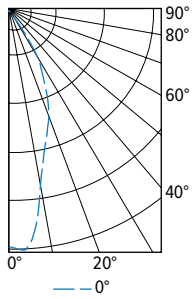
6DR-TL-P29/835-DIM-POE-OW-OF-CS Total Luminaire Output: 2947 lumens; 25.0 Watts | Efficacy: 117.9 lm/W | 82.7 CRI; 3598K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	2479	
	5	2341	224
	15	2572	729
	25	2938	1360
	35	895	563
	45	68	53
	55	19	17
	65	3	2
	75	0	0
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2870	98
	0 - 60	2945	100
	0 - 90	2947	100
	0 - 180	2947	100

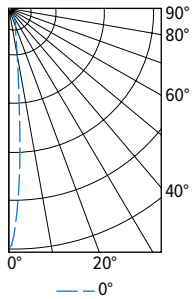
6DR-TL-P29/835-DIM-POE-OM-OF-CS Total Luminaire Output: 2855 lumens; 25.0 Watts | Efficacy: 114.2 lm/W | 82.7 CRI; 3579K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	5778	
	5	5719	498
	15	3347	943
	25	2033	933
	35	569	395
	45	67	59
	55	20	19
	65	6	6
	75	2	2
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2769	97
	0 - 60	2847	100
	0 - 90	2855	100
	0 - 180	2855	100

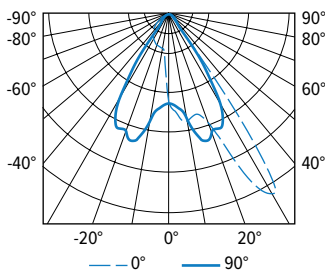
6DR-TL-P29/835-DIM-POE-ON-OF-CS Total Luminaire Output: 2731 lumens; 25.0 Watts | Efficacy: 109.2 lm/W | 82.6 CRI; 3578K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	29655	
	5	13251	1013
	15	2739	801
	25	1376	655
	35	326	241
	45	18	14
	55	5	5
	65	1	2
	75	0	1
	85	0	0
	90	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2709	99
	0 - 60	2728	100
	0 - 90	2731	100
	0 - 180	2731	100

6DR-TL-P29/835-DIM-POE-OWW-OF-CS Total Luminaire Output: 1665 lumens; 25.0 Watts | Efficacy: 66.6 lm/W | 82.6 CRI; 3568K CCT



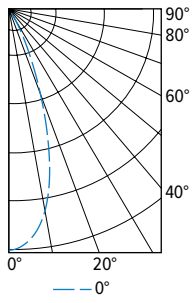
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1275	1275	1275	1275	1275	
	5	1441	1391	1328	816	665	108
	15	1470	1439	1861	454	482	308
	25	2561	1526	1734	396	453	561
	35	889	660	619	340	387	348
	45	71	60	145	274	305	130
	55	35	34	89	191	201	98
	65	26	24	53	115	119	67
	75	11	8	25	64	64	36
	85	0	0	4	14	10	9
	90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1326	80
	0 - 60	1553	93
	0 - 90	1665	100
	0 - 180	1665	100



6DR PoE | tunable WHITE 6" Downlight – Round

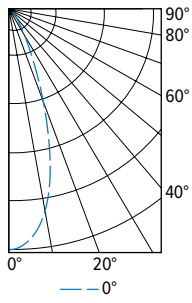
6DR-TL-P29/835-DIM-POE-LM-OF-WH Total Luminaire Output: 2646 lumens; 25.0 Watts | Efficacy: 105.8 lm/W | 82.6 CRI; 3549K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6246	
	5	6001	550
	15	3928	1056
	25	1220	582
	35	319	212
	45	128	102
	55	76	69
	65	46	45
	75	23	24
	85	5	6
	90	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2400	91
	0 - 60	2570	97
	0 - 90	2646	100
	0 - 180	2646	100

6DR-TL-P29/835-DIM-POE-RM-OF-WH Total Luminaire Output: 2573 lumens; 25.0 Watts | Efficacy: 102.9 lm/W | 82.7 CRI; 3546K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE	ZONAL LUMENS
		0°	
	0	6227	
	5	5965	546
	15	3854	1037
	25	1222	581
	35	324	214
	45	110	88
	55	60	54
	65	33	33
	75	14	15
	85	4	4
	90	1	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2379	92
	0 - 60	2521	98
	0 - 90	2573	100
	0 - 180	2573	100

TRIMLOCK DETAILS

TWIST



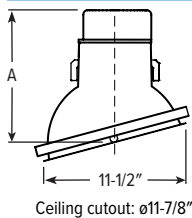
PULL



RELEASE



SLOPED CEILING ADAPTOR DETAILS

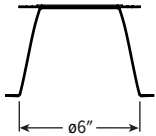


LUMENS	A (HEIGHT)						PLENUM HEIGHT
	5°	10°	15°	20°	25°	30°	
P16 - P46	10-11/16"	10-7/8"	10-15/16"	10-7/8"	10-13/16"	10-5/8"	11-1/4"
P62	11-7/16"	11-9/16"	11-5/8"	11-5/8"	11-1/2"	11-1/4"	12"

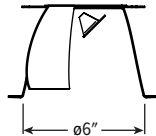
15° Shown

TRIM TYPE DETAILS

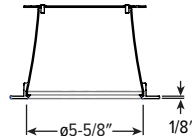
OPEN



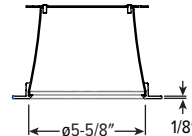
OPEN (WALL WASH)



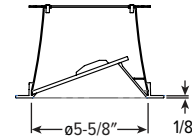
FLUSH



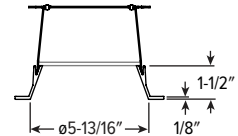
SHOWER



ANGLED

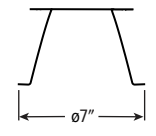


REGRESSED



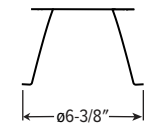
FLANGE TYPE DETAILS

1/2" STANDARD



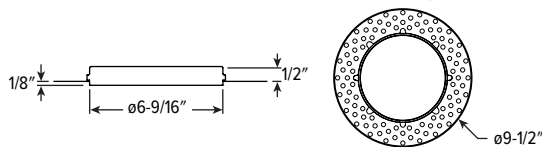
Ceiling Cutout: $\phi 6-1/2"$

1/4" MUD-IN



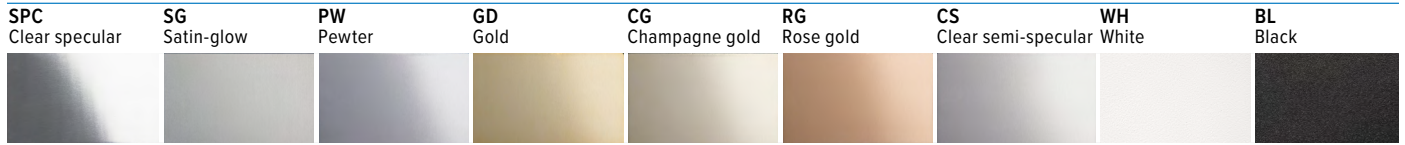
Ceiling cutout: $\phi 6-3/4"$

MUD FLANGE MOUNTING KIT (SLIM FLANGE TYPE)



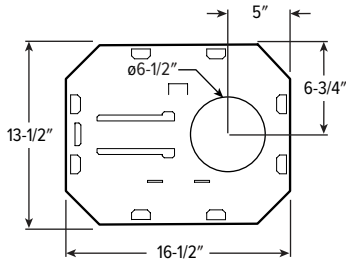
6DR PoE | tunable WHITE 6" Downlight – Round

REFLECTOR FINISH DETAILS

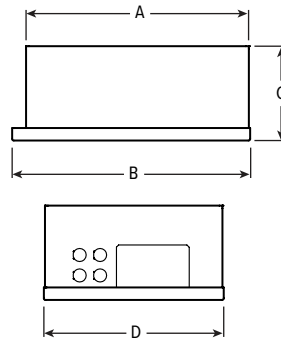


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

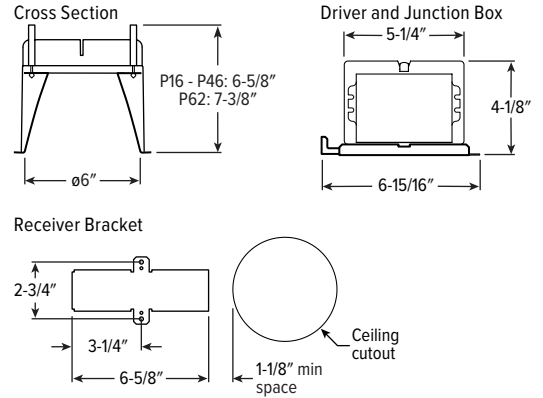


IC-RATED



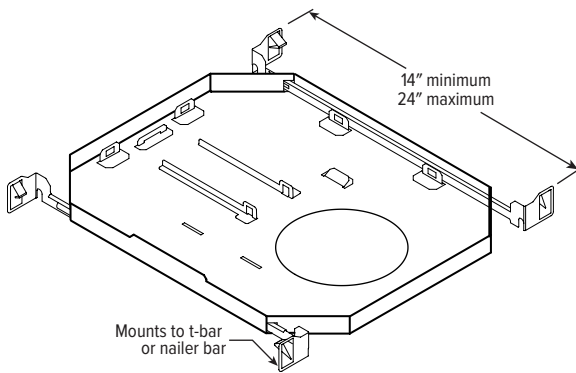
LUMENS	LENGTH			
	A	B	C	D
P16 - P29	15-3/16"	16"	6-3/8"	12-1/8"

REMODEL

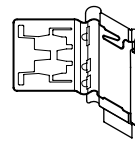


MOUNTING HARDWARE DETAILS

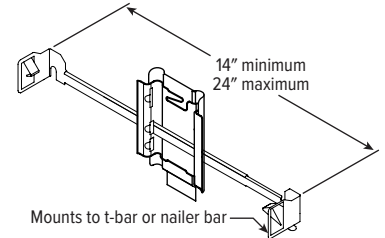
F1 Integral 2-position fixed pan bracket, universal bar hanger included



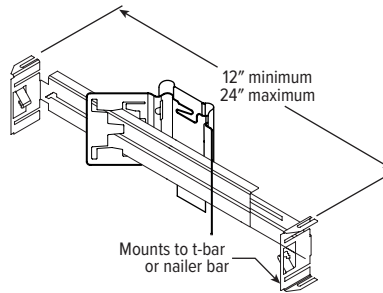
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



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



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

