

# **BURKE MOUNTAIN DISCOVERY CENTRE + COFFEE HOUSE DRAINAGE + OTHER EQUIPMENT SPECIFICATIONS**

ISSUED FOR COFFEE HOUSE RFP: 2020-10-02

## **GENERAL NOTES:**

1. To be read in conjunction with architectural, electrical, mechanical, structural, civil drawings, specifications and geotechnical reports
2. Provide current, up-to-date product specifications as submittals for review by owner / consultants
3. Report products with long lead times or unavailable to the attention of the owner / consultants



# FD-100-C-A5-1

Tag: \_\_\_\_\_

## Floor Drain with Round Strainer

### Components:



**SPECIFICATION:** Watts Drainage Products FD-100-C-A epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/4"(6) thick (specify diameter) adjustable nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

Order Code: FD-10 ☐ ☐ -C- ☐ ☐ ☐ ☐

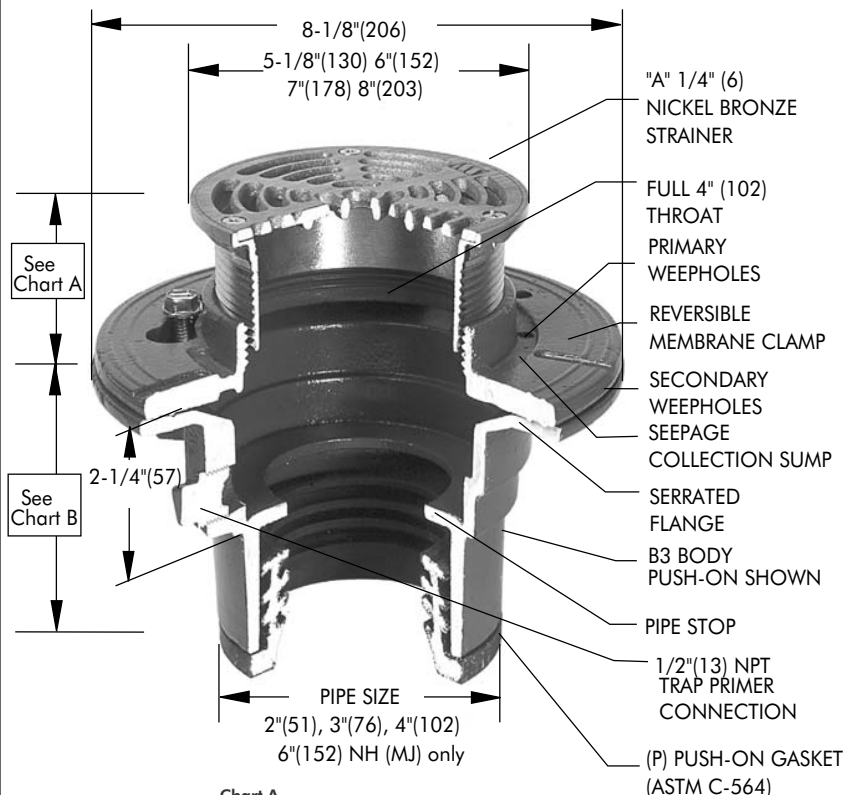


Chart A

Str. Dia.	Min.	Max.	Load Rating	Free Area Sq. In.
5"(127)	13/16"(21)	2-1/2"(64)	*MD	8
6"(152)	7/8"(22)	2-3/4"(70)	*MD	9
7"(178)	11/16"(17)	2-1/2"(64)	*MD	12
8"(203)	7/8"(22)	2-7/8"(73)	*MD	18

\* The load classifications are in accordance with the American National Standards ASME A112.21.1M. ASME Ratings are as follows:  
MD - Safe Live Load 2000-4999 lbs.(900-2250kg)  
The above categories are given as a guide only. Please consult factory.

Chart B

	Std.	P	T	X	60/61
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ABS
2"(51)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	3-3/4"(95)
3"(76)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	3-3/4"(95)
4"(102)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	4"(102)
6"(152)	3-1/2"(89)				

### Ex. FD-102P-C-A5-1

Suffix	Description	
2	2"(51) Pipe Size	<input type="checkbox"/>
3	3"(76) Pipe Size	<input checked="" type="checkbox"/>
4	4"(102) Pipe Size	<input type="checkbox"/>
6	6"(152) Pipe Size	<input type="checkbox"/>

Suffix	Description	
NH	No Hub (MJ)	<input checked="" type="checkbox"/>
P	Push On	<input type="checkbox"/>
T	Threaded Outlet	<input type="checkbox"/>
X	Inside Caulk	<input type="checkbox"/>

Suffix	Description	
A5-1	5"(127) Diameter, Nickel Bronze	<input checked="" type="checkbox"/>
A6-1	6"(152) Diameter, Nickel Bronze	<input type="checkbox"/>
A7-1	7"(178) Diameter, Nickel Bronze	<input type="checkbox"/>
A8-1	8"(203) Diameter, Nickel Bronze	<input type="checkbox"/>

Suffix	Description	
-5	Sediment Bucket	<input type="checkbox"/>
-6	Vandal Proof	<input type="checkbox"/>
-8	Backwater Valve (3" / 4" Only)	<input type="checkbox"/>
-12	Galvanized Top	<input type="checkbox"/>
-13	All Galvanized	<input type="checkbox"/>
-15	Strainer Extension (DD-50)	<input type="checkbox"/>
-113M	Special Epoxy from 3M Range	<input type="checkbox"/>
-F4-50	4" Round Cast Iron Funnel	<input type="checkbox"/>
-F4-1	4" Round Nickel Bronze Funnel	<input type="checkbox"/>
-F6-1	6" Round Nickel Bronze Funnel	<input type="checkbox"/>
-G-50	4x9" Oval Cast Iron Funnel	<input type="checkbox"/>
-G-1	4x9" Oval Nickel Bronze Funnel	<input type="checkbox"/>
-SO	Side Outlet	<input type="checkbox"/>
-Z	Elastomeric Flange	<input type="checkbox"/>

Suffix	Description	
-60	PVC Body w/Socket Outlet	<input type="checkbox"/>
-61	ABS Body w/Socket Outlet	<input type="checkbox"/>

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

WATTS Drainage reserves the right to modify or change product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to products previously or subsequently sold. See your WATTS Drainage representative for any clarification. Dimensions are subject to manufacturing tolerances.



CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: [www.wattsdrainage.ca](http://www.wattsdrainage.ca)



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FD-100-C-A5-1

Tag: \_\_\_\_\_

Floor Drain with  
Round Strainer

## Components:



B3



BLT3-XYC



A



FC-1

**SPECIFICATION:** Watts Drainage Products FD-100-C-A epoxy coated cast iron floor drain with anchor flange, reversible membrane clamp with primary and secondary weepholes, 1/4"(6) thick (specify diameter) adjustable nickel bronze (standard) strainer, and no hub (MJ) (standard) outlet.

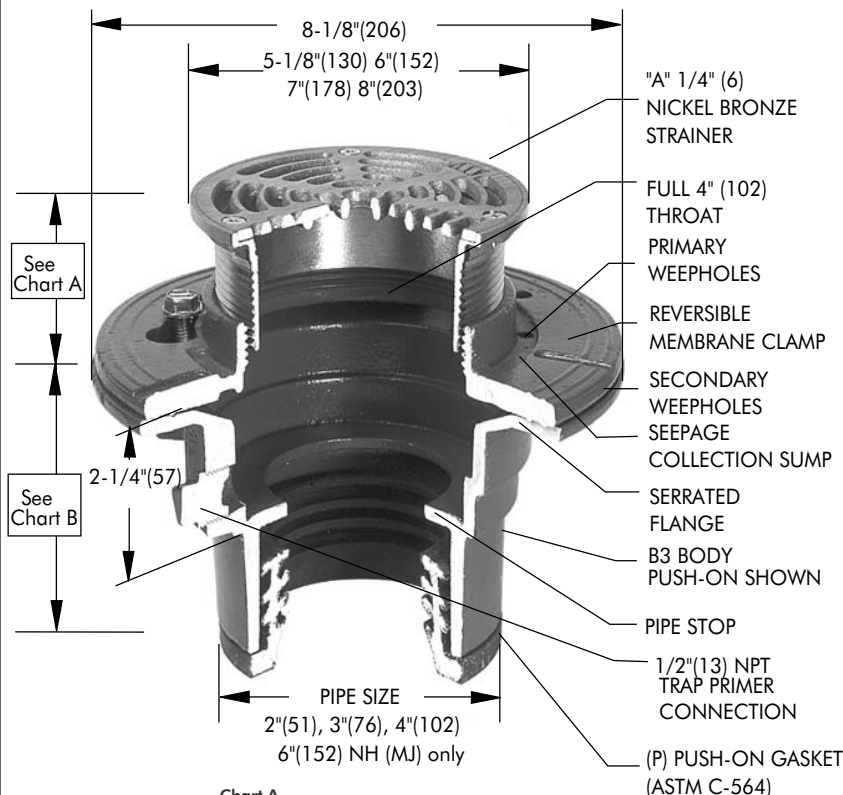
Order Code: FD-10 ☐ ☐ -C- ☐ ☐ ☐ ☐

Chart A

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Chart B

	Std.	P	T	X	60/61
Pipe Size	No Hub	Push On	Female Thread	Inside Caulk	PVC/ABS
2"(51)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	3-3/4"(95)
3"(76)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	3-3/4"(95)
4"(102)	3-5/8"(92)	4-1/4"(108)	4-1/4"(108)	4-1/2"(114)	4"(102)
6"(152)	3-1/2"(89)				

Ex. FD-102P-C-A5-1

Pipe Sizing (Select One)	
Suffix	Description
2	2"(51) Pipe Size <input type="checkbox"/>
3	3"(76) Pipe Size <input type="checkbox"/>
4	4"(102) Pipe Size <input type="checkbox"/>
6	6"(152) Pipe Size <input checked="" type="checkbox"/>

Outlet Type (Select One)	
Suffix	Description
NH	No Hub (MJ) <input checked="" type="checkbox"/>
P	Push On <input type="checkbox"/>
T	Threaded Outlet <input type="checkbox"/>
X	Inside Caulk <input type="checkbox"/>

Strainer (Select One)	
Suffix	Description
A5-1	5"(127) Diameter, Nickel Bronze <input checked="" type="checkbox"/>
A6-1	6"(152) Diameter, Nickel Bronze <input type="checkbox"/>
A7-1	7"(178) Diameter, Nickel Bronze <input type="checkbox"/>
A8-1	8"(203) Diameter, Nickel Bronze <input type="checkbox"/>

Options (Select One or More)	
Suffix	Description
-5	Sediment Bucket <input type="checkbox"/>
-6	Vandal Proof <input type="checkbox"/>
-8	Backwater Valve (3" / 4" Only) <input type="checkbox"/>
-12	Galvanized Top <input type="checkbox"/>
-13	All Galvanized <input type="checkbox"/>
-15	Strainer Extension (DD-50) <input type="checkbox"/>
-113M	Special Epoxy from 3M Range <input type="checkbox"/>
-F4-50	4" Round Cast Iron Funnel <input type="checkbox"/>
-F4-1	4" Round Nickel Bronze Funnel <input type="checkbox"/>
-F6-1	6" Round Nickel Bronze Funnel <input type="checkbox"/>
-G-50	4x9" Oval Cast Iron Funnel <input type="checkbox"/>
-G-1	4x9" Oval Nickel Bronze Funnel <input type="checkbox"/>
-SO	Side Outlet <input type="checkbox"/>
-Z	Elastomeric Flange <input type="checkbox"/>

Optional Body Material (NH Only)	
Suffix	Description
-60	PVC Body w/Socket Outlet <input type="checkbox"/>
-61	ABS Body w/Socket Outlet <input type="checkbox"/>

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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HY-725

Tag: \_\_\_\_\_

Non-Freeze Wall Hydrant with  
NB Box, Integral Vacuum Breaker

**SPECIFICATION:** WATTS Drainage Products HY-725 concealed non-freeze key operated wall hydrant with nickel bronze (standard) box and door, chrome plated hydrant face, integral vacuum breaker, 3/4"(19) hose connection, all bronze head, seat casting and internal working parts, galvanized wall casing, and hydrant key.

**FUNCTION:** For recessed installation in exterior walls where self-draining integral vacuum breaker is required in areas subject to freezing.

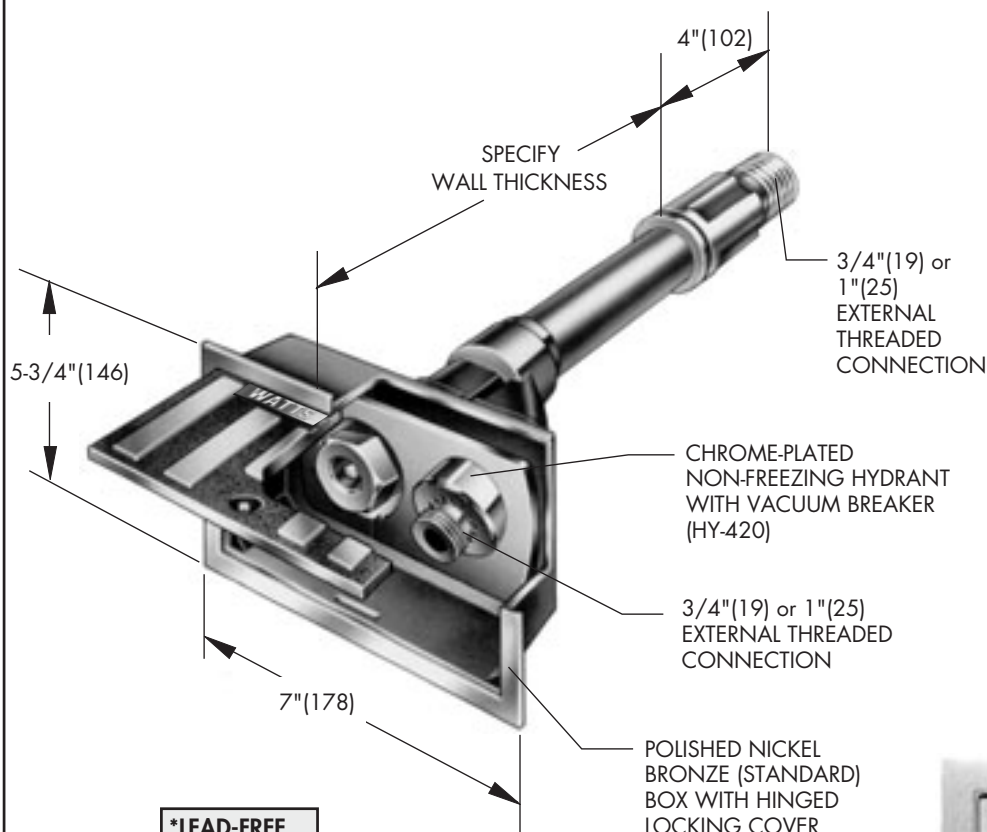
Order Code: HY-725-  - 

Ex. HY-725-10-K

Wall Thickness (Select One)		
Suffix	Description	
6	6"(152) Thick	<input type="checkbox"/>
8	8"(203) Thick	<input type="checkbox"/>
10	10"(254) Thick	<input type="checkbox"/>
12	12"(305) Thick	<input type="checkbox"/>
14	14"(356) Thick	<input type="checkbox"/>
16	16"(406) Thick	<input type="checkbox"/>
18	18"(457) Thick	<input type="checkbox"/>
20	20"(508) Thick	<input type="checkbox"/>
24	24"(610) Thick	<input type="checkbox"/>
Other	Specify _____	

Options (Select One or More)		
Suffix	Description	
.1"	1" Hose Connection	<input type="checkbox"/>
-88	Wall Clamp	<input type="checkbox"/>
-K	Keyed Custodian Operation Cylinder Lock	<input type="checkbox"/>
-SS	Cast Stainless Steel	<input type="checkbox"/>

\*LEAD-FREE  
HYDRANT

Recommended Wall Opening:  
5-1/4" x 6-1/4" (133 x 158)



Standard finish is polished nickel bronze.

Job Name \_\_\_\_\_ Contractor \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor's P.O. No. \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_

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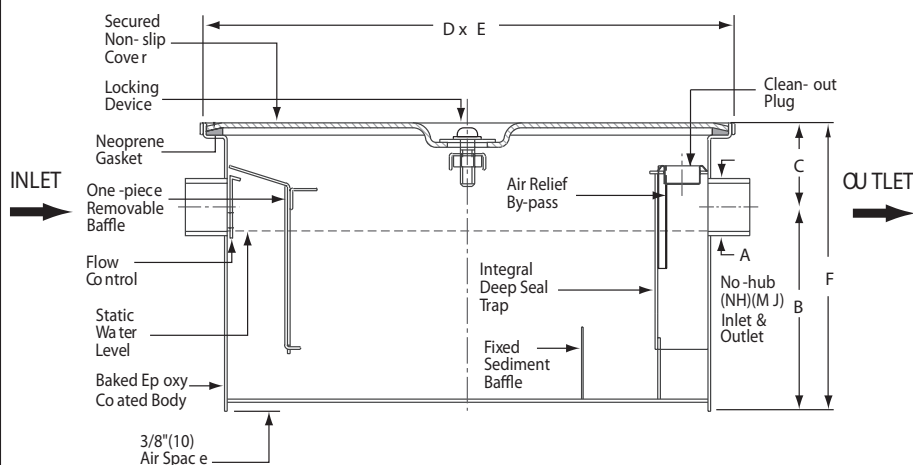


WD-210-DI

Tag: \_\_\_\_\_

Grease Interceptor

**SPECIFICATION:** Watts Drainage Products WD Series epoxy coated inside and outside fabricated steel grease interceptor with flow rating of 4 to 300 GPM and grease capacity of 8 to 600 lbs. Unit shall include one piece removable baffle assembly, code approved deep seal trap, secured and gasketed non slip cover, NH (MJ) (standard) inlet and outlet and internal flow control.



Interceptor Catalog Number	Grease Capacity lbs.	A Inlet & Outlet	B Base to Center	C Top to Center	D Length	E Width	F Height
WD-104	8	2"(51)	7-3/4"(197)	6"(152)	16"(406)	10"(254)	13-3/4"(349)
WD-107	14	2"(51)	8-1/2"(216)	6"(152)	18"(457)	13"(330)	14-1/2"(368)
WD-110	20	2"(51)	8-1/2"(216)	6"(152)	21-3/4"(552)	14"(356)	14-1/2"(368)
WD-115	30	2"(51)	10-1/2"(267)	6"(152)	22"(559)	15"(381)	16-1/2"(419)
WD-120	40	3"(76)	11-1/2"(192)	6"(152)	24"(610)	15-3/4"(400)	17-1/2"(445)
WD-125	50	3"(76)	12"(305)	6"(152)	26"(660)	16-1/2"(419)	18"(457)
WD-135	70	4"(102)	14"(356)	6"(152)	30"(762)	18"(457)	20"(508)
WD-150	100	4"(102)	16"(406)	6"(152)	32"(813)	22"(559)	22"(559)
WD-175	150	4"(102)	18-1/2"(470)	6"(152)	36"(914)	24"(610)	24-1/2"(622)
WD-210	200	4"(102)	29"(737)	10"(254)	40"(1016)	28"(711)	39"(991)
WD-215	300	4"(102)	39"(991)	10"(254)	40"(1016)	28"(711)	49"(1245)
WD-220	400	4"(102)	37"(940)	10"(254)	50"(1270)	34"(864)	47"(1194)
WD-225	500	4"(102)	39"(991)	10"(254)	50"(1270)	34"(864)	49"(1245)
WD-230	600	6"(150)	38"(965)	10"(254)	76"(1930)	45"(1143)	48"(1219)

Ex. WD-104-T-FC

Piping Size (Select One)	
Suffix	Description
104	4 GPM
107	7 GPM
110	10 GPM
115	15 GPM
120	20 GPM
125	25 GPM
135	35 GPM
150	50 GPM
175	75 GPM
210	100 GPM
215	150 GPM
220	200 GPM
225	250 GPM
230	300 GPM

Options (Select One or More)	
Suffix	Description
-B	Sediment Bucket
-DI	Dual Inlet
-E	Electronics
-EB	Extension* (Bolt-on)
-F	Flange
-FC	Flange & Clamp Device
-HDC	Heavy Duty Cover 1,000 lbs.
-O	Inlet & Outlet other than standard
-SS	Stainless Steel
-MEFC	MJ External Flow Control
-TEFC	Threaded External Flow Control
-X#"	Extension as Required
-XHDC	Extra Heavy Duty Cover 10,000 lbs.
-IP	Injection Port
-ALC	Aluminum Cover
-FSB	Fish Scale Bucket

#### Optional Inlet/Outlet Sizes (When -O is selected above)

Suffix	Description
-2	2"(51) Inlet/Outlet
-3	3"(76) Inlet/Outlet
-4	4"(102) Inlet/Outlet
-6	6"(152) Inlet/Outlet***

\*\*\*Threaded Outlet or MEFC/TEFC  
External Flow Control Not Available

Job Name \_\_\_\_\_ Model No. \_\_\_\_\_

Job Location \_\_\_\_\_ Contractor \_\_\_\_\_

Engineer \_\_\_\_\_ Representative \_\_\_\_\_



Specification Drainage Products

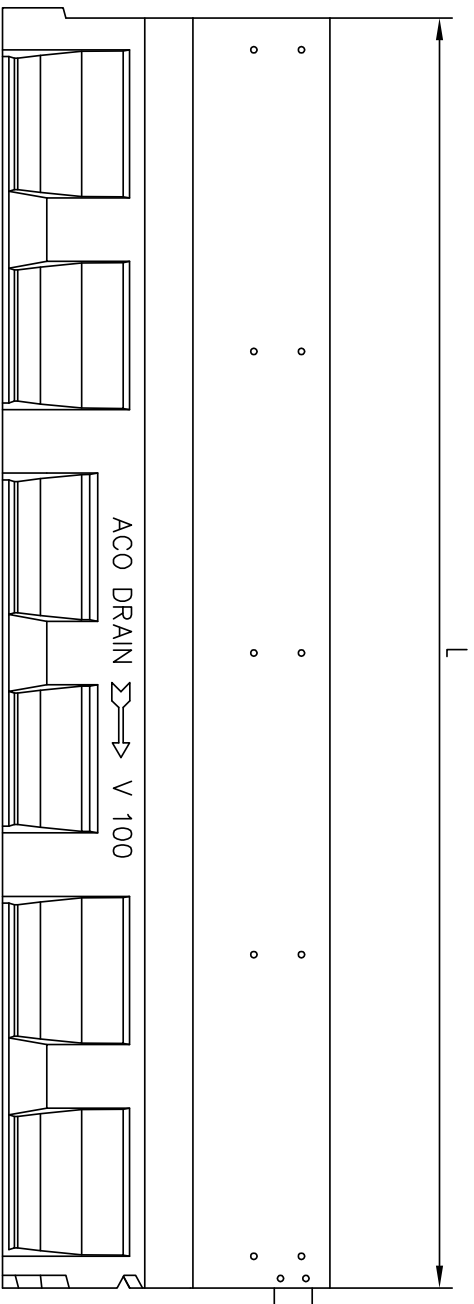
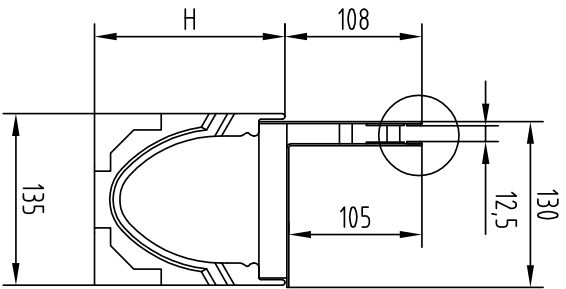
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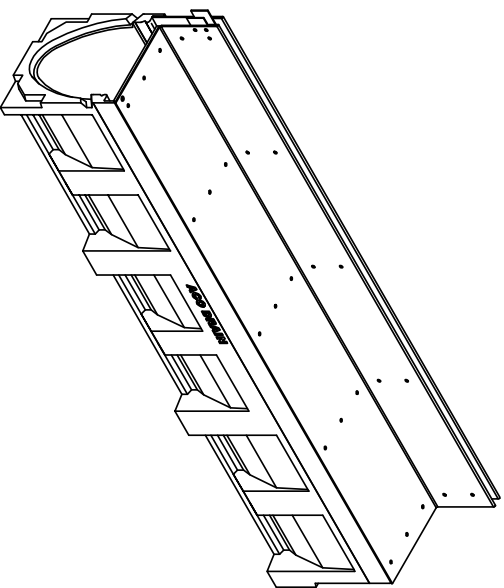
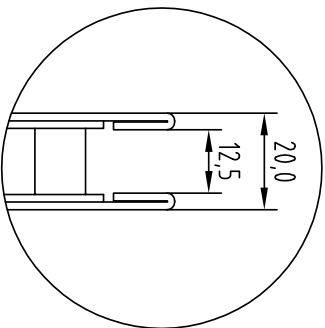
CANADA: 5435 North Service Road, Burlington, ON, L7L 5H7 TEL: 905-332-6718 TOLL-FREE: 1-888-208-8927 Website: www.wattscanada.ca

ES-WD-WD SERIES CANADA 0110

[Dimension] Denotes Millimeters



Rinne	H (mm)	Art.-Nr.
Typ 0.0	150	12330
Typ 5.0	175	12340
Typ 10.0	200	12350
Typ 15.0	225	12360
Typ 20.0	250	12370



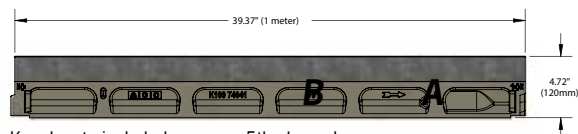
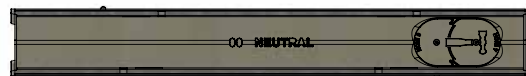
Schlitzrahmen	Stahl verzinkt Art.-Nr.	VZA Art.-Nr.
L=1,0 m	49952	49958
L=0,5 m	49953	49959

Benennung: Multiline V 100 mit Schlitzrahmen seitlich bündig, Kl. C250, H=10,5 cm		Datum		Name	
Art.-Nr. 49952,49953,49958,49959		Gez. 29.08.2005		debeling	
		Upd. 08.01.2009		debeling	
Technische Änderungen vorbehalten		Norm			
		Schutzvermerk gemäß DIN 34		Ers. für:	

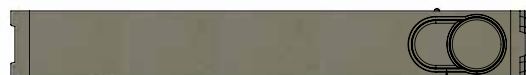
## ACO DRAIN

## KlassikDrain - K100 Galvanized steel edge rail channel system

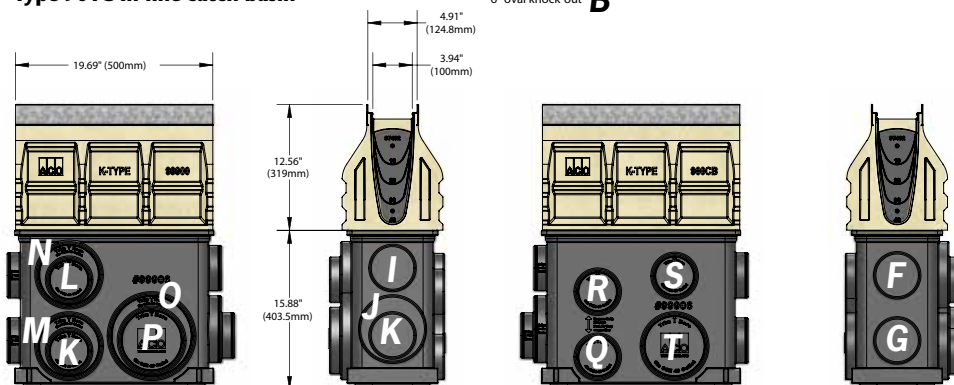
## One meter channel



Knock-outs included on every 5th channel



## Type 901G In-line catch basin



K1-0103  
K1-0203  
K1-0303  
K1-0403

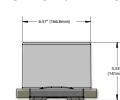
Total capacity =  
10.49 gallons

## Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K00	4" round	3.94"	108	0.24
A	Bottom outlet - K40	4" round	11.81"	187	0.42
B	Bottom outlet - K00	6" oval	3.94"	177	0.39
B	Bottom outlet - K40	6" oval	11.81"	306	0.68
C	End outlet - K20	4" round	7.87"	132	0.29
C	End outlet - K40	4" round	11.81"	171	0.38
D	K1-308-6 6" outlet cap	6" oval	9.84"	233	0.52
E	K1-408-6 6" outlet cap	6" oval	11.81"	264	0.59
F	Type K1-901G	4" round	19.30"	226	0.50
G	Type K1-901G	4" round	25.67"	265	0.59
H	Type K1-901G	4" round	25.30"	263	0.59
I	Type K1-901G	4" round	18.56"	222	0.49
J	Type K1-901G	6" round	25.85"	586	1.30
K	Type K1-901G	4" round	26.43"	269	0.60
L	Type K1-901G	4" round	19.36"	227	0.51
M	Type K1-901G	6" round	27.30"	604	1.35
N	Type K1-901G	6" round	19.99"	505	1.12
O	Type K1-901G	8" round	27.30"	1051	2.34
P	Type K1-901G	6" round	26.43"	593	1.32
Q	Type K1-901G	4" round	27.17"	273	0.61
R	Type K1-901G	4" round	20.68"	235	0.52
S	Type K1-901G	4" round	18.99"	224	0.50
T	Type K1-901G	6" round	27.17"	6.02	1.34

**Note:** These are the pipe flow rates at the specified outlet, **NOT** channel flow rates. Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

## 6" Oval inlet cap



## K1-304-6

10.64" (270mm)



## 6" Oval outlet cap



D

## K1-308-6

10.64" (270mm)

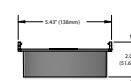


E

## K1-408-6

12.61" (320mm)

## End Cap



C

ACO Specification Information

## ACO DRAIN

## KlassikDrain - K100 Galvanized steel edge rail channel system



## ACO Specification Information

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight Lbs.
<b>K1-00 Neutral channel - 39.37" (1m)<sup>Ⓟ</sup></b>	<b>74041</b>	<b>3.94</b>	<b>100</b>	<b>28.1</b>
K1-1 Sloped channel - 39.37" (1m)	74001	4.13	105	28.1
K1-2 Sloped channel - 39.37" (1m)	74002	4.33	110	28.9
K1-3 Sloped channel - 39.37" (1m)	74003	4.53	115	29.7
K1-4 Sloped channel - 39.37" (1m)	74004	4.72	120	30.5
K1-5 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74005	4.92	125	31.3
K1-6 Sloped channel - 39.37" (1m)	74006	5.12	130	32.1
K1-7 Sloped channel - 39.37" (1m)	74007	5.31	135	32.9
K1-8 Sloped channel - 39.37" (1m)	74008	5.51	140	33.7
K1-9 Sloped channel - 39.37" (1m)	74009	5.71	145	34.5
K1-10 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74010	5.91	150	35.3
<b>K1-010 Neutral channel - 39.37" (1m)<sup>Ⓟ</sup></b>	<b>74043</b>	<b>5.91</b>	<b>150</b>	<b>35.3</b>
<b>K1-0103 Neutral channel - 19.69" (0.5m)<sup>Ⓟ</sup></b>	<b>74044</b>	<b>5.91</b>	<b>150</b>	<b>17.0</b>
K1-11 Sloped channel - 39.37" (1m)	74011	6.10	155	36.1
K1-12 Sloped channel - 39.37" (1m)	74012	6.30	160	36.9
K1-13 Sloped channel - 39.37" (1m)	74013	6.50	165	37.7
K1-14 Sloped channel - 39.37" (1m)	74014	6.69	170	38.5
K1-15 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74015	6.89	175	39.3
K1-16 Sloped channel - 39.37" (1m)	74016	7.09	180	40.1
K1-17 Sloped channel - 39.37" (1m)	74017	7.28	185	40.9
K1-18 Sloped channel - 39.37" (1m)	74018	7.48	190	41.7
K1-19 Sloped channel - 39.37" (1m)	74019	7.68	195	42.5
K1-20 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74020	7.87	200	43.4
<b>K1-020 Neutral channel - 39.37" (1m)<sup>Ⓟ</sup></b>	<b>74045</b>	<b>7.87</b>	<b>200</b>	<b>43.4</b>
<b>K1-0203 Neutral channel - 19.69" (0.5m)<sup>Ⓟ</sup></b>	<b>74046</b>	<b>7.87</b>	<b>200</b>	<b>20.5</b>
K1-21 Sloped channel - 39.37" (1m)	74021	8.07	205	44.2
K1-22 Sloped channel - 39.37" (1m)	74022	8.27	210	45.0
K1-23 Sloped channel - 39.37" (1m)	74023	8.46	215	45.8
K1-24 Sloped channel - 39.37" (1m)	74024	8.66	220	46.6
K1-25 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74025	8.86	225	47.4
K1-26 Sloped channel - 39.37" (1m)	74026	9.06	230	48.2
K1-27 Sloped channel - 39.37" (1m)	74027	9.25	235	49.0

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight Lbs.
K1-28 Sloped channel - 39.37" (1m)	74028	9.45	240	49.8
K1-29 Sloped channel - 39.37" (1m)	74029	9.65	245	50.6
K1-30 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74030	9.84	250	51.4
<b>K1-030 Neutral channel - 39.37" (1m)<sup>Ⓟ</sup></b>	<b>74047</b>	<b>9.84</b>	<b>250</b>	<b>51.4</b>
<b>K1-0303 Neutral channel - 19.69" (0.5m)<sup>Ⓟ</sup></b>	<b>74048</b>	<b>9.84</b>	<b>250</b>	<b>24.0</b>
K1-31 Sloped channel - 39.37" (1m)	74031	10.04	255	52.2
K1-32 Sloped channel - 39.37" (1m)	74032	10.24	260	53.0
K1-33 Sloped channel - 39.37" (1m)	74033	10.43	265	53.8
K1-34 Sloped channel - 39.37" (1m)	74034	10.63	270	54.6
K1-35 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74035	10.83	275	55.4
K1-36 Sloped channel - 39.37" (1m)	74036	11.02	280	56.2
K1-37 Sloped channel - 39.37" (1m)	74037	11.22	285	57.0
K1-38 Sloped channel - 39.37" (1m)	74038	11.42	290	57.9
K1-39 Sloped channel - 39.37" (1m)	74039	11.61	295	58.7
K1-40 Sloped channel - 39.37" (1m) <sup>Ⓟ</sup>	74040	11.81	300	59.5
<b>K1-040 Neutral channel - 39.37" (1m)<sup>Ⓟ</sup></b>	<b>74049</b>	<b>11.81</b>	<b>300</b>	<b>59.5</b>
<b>K1-0403 Neutral channel - 19.69" (0.5m)<sup>Ⓟ</sup></b>	<b>74050</b>	<b>11.81</b>	<b>300</b>	<b>27.5</b>
K1-901G In-line catch basin - 19.69" (0.5m) <sup>Ⓟ</sup>	94608	28.81	701.9	52.6
K1-621G catch basin - 19.69" (0.5m) <sup>Ⓟ</sup>	94617	28.84	732.5	55.8
K1-631G catch basin - 19.69" (0.5m) <sup>Ⓟ</sup>	94631	40.84	1037.4	65.8
K1-Series 600 Optional plastic riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
K1-304-6 6" Inlet Cap	96839	9.84	250	5.2
K1-308-6 6" Outlet Cap	96840	9.84	250	5.0
K1-404-6 6" Inlet Cap	96834	11.81	300	6.0
K1-408-6 6" Outlet Cap	96836	11.81	300	5.8
Universal end cap	96822	11.81	300	0.4
Debris strainer for 4" bottom knockout	93488	-	-	0.2
4" Oval to 6" round outlet adapter	95140	-	-	1.1
K1-Installation device	97477	-	-	2.8
Grate removal tool	01318	-	-	0.3
K1-QuickLok locking bar	02899	-	-	0.1

**Notes:**

- This channel offers a bottom knockout feature; 4" round/6" oval.
- Inverts shown are for the male end; for female invert depth subtract 5mm (≈0.2") from the male invert (except for neutral channels, where it will be same as male invert).  
To calculate the overall channel depth add 20mm (≈0.8") to invert depth.
- This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
- This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.

**Specifications****General**

The surface drainage system shall be ACO Drain K100 complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or approved equal.

**Materials**

The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

Compressive strength: 14,000 psi  
Flexural strength: 4,000 psi

Water absorption 0.07%  
Frost proof YES  
Salt proof YES  
Dilute acid and alkali resistant YES

The nominal clear opening shall be 4" (100mm) with overall width of 5.12" (130mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The galvanized steel edge rail will be integrally

cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (2.5mm) thick.

**Grates**

Grates shall be specified. See separate ACO Spec Info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

**Installation**

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

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**SPEC INFO**  
**ACO**

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**September 2016**

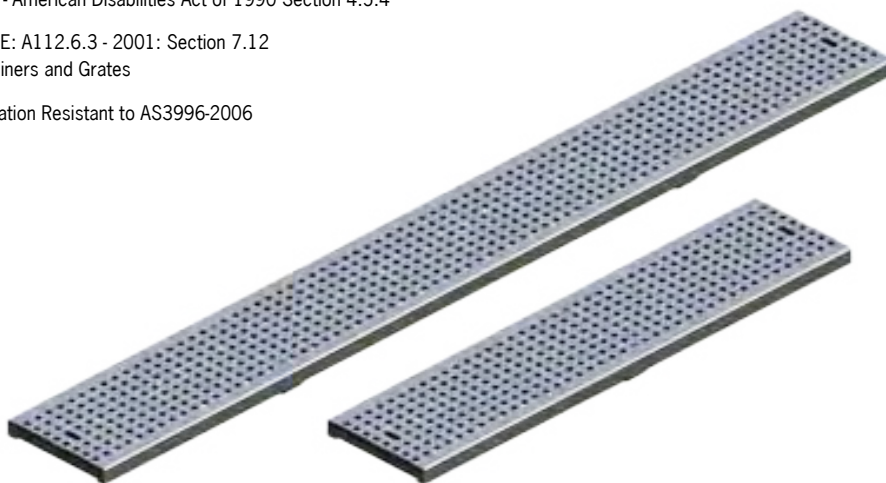
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## ACO DRAIN

### Type 410D/412D Perforated galvanized steel grate (ADA)

#### Product Features

- Certified to EN 1433 Load Class A - 3,500 lbs - 70 psi
- Uses 'DrainLok' boltless locking system
- Suitable for use with K100, KS100, and H100K-8 channels
- Manufactured from 16 gauge galvanized steel
- Patented reinforcement underneath designed to prevent bowing and collapse
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A112.6.3 - 2001: Section 7.12  
Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS3996-2006



#### Specifications

##### General

The surface drainage system shall be ACO Drain K100, KS100, and H100K-8 channels\*, complete with ACO Type 410D/412D Perforated galvanized steel grate with 'DrainLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

##### Materials

The covers shall be manufactured from galvanized steel and have **minimum** properties as follows:-

- **Independently certified to meet Load Class A to EN 1433 - 3,500 lbs - 70 psi**
- **16 gauge galvanized steel**
- **Intake area of 14.1 sq. in. (91.0 cm<sup>2</sup>) per half meter of grate**

The overall width of 4.84" (123mm) and overall length of 39.37" (1000mm) (Type 410D) and 19.69" (500mm) (Type 412D). Perforations measure 0.25" (6.35mm) in diameter.

##### Installation

The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.

\* delete as appropriate

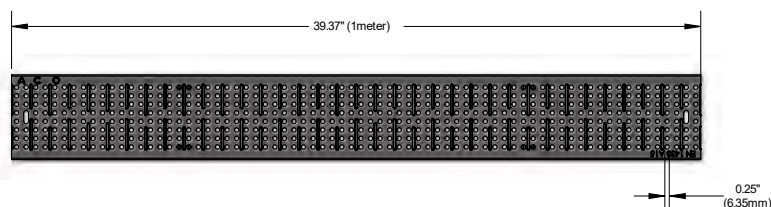
ACO Specification Information

## ACO DRAIN

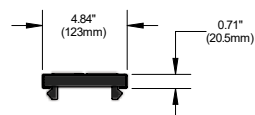
### Type 410D/412D Perforated galvanized steel grate (ADA)



Plan view

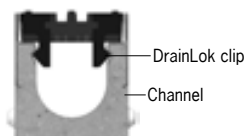


Side elevation



Description	Part No.	Length inches (mm)	Width inches (mm)	Weight lbs.
<b>DrainLok grates</b>				
Type 410D perforated galvanized grate	<b>12666</b>	39.37 (1000)	4.84 (123)	6.3
Type 412D perforated galvanized grate	<b>12667</b>	19.69 (500)	4.84 (123)	3.2

#### 'DrainLok' locking mechanism



ACO DrainLok™ is a patented, boltless locking system that removes the need for bolts and bars and improves the hydraulic capacity of the channel. The DrainLok™ mechanism simply clips into the channel edge rail for rapid installation. ACO DrainLok™ grates are fitted with an anti-shunt mechanism that restricts unwanted grate movement when installed, improving durability and longevity of the system.

ACO Specification Information

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August 2017

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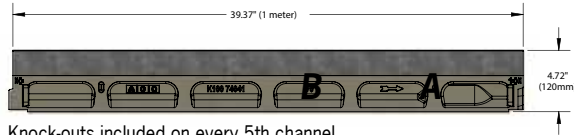
**SPEC INFO**  
**ACO**



## ACO DRAIN

### KlassikDrain - K100 Galvanized steel edge rail channel system

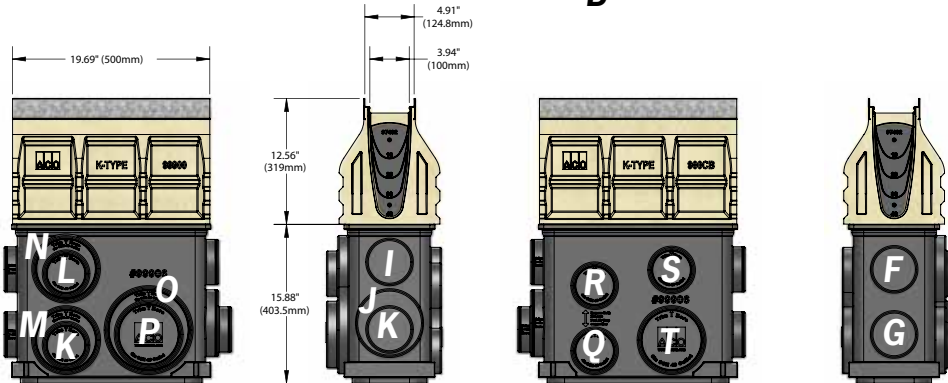
#### One meter channel



Knock-outs included on every 5th channel



#### Type 901G In-line catch basin



K1-0103  
K1-0203  
K1-0303  
K1-0403

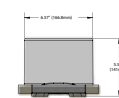
Total capacity =  
10.49 gallons

#### Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - K00	4" round	3.94"	108	0.24
A	Bottom outlet - K40	4" round	11.81"	187	0.42
B	Bottom outlet - K00	6" oval	3.94"	177	0.39
B	Bottom outlet - K40	6" oval	11.81"	306	0.68
C	End outlet - K20	4" round	7.87"	132	0.29
C	End outlet - K40	4" round	11.81"	171	0.38
D	K1-308-6 6" outlet cap	6" oval	9.84"	233	0.52
E	K1-408-6 6" outlet cap	6" oval	11.81"	264	0.59
F	Type K1-901G	4" round	19.30"	226	0.50
G	Type K1-901G	4" round	25.67"	265	0.59
H	Type K1-901G	4" round	25.30"	263	0.59
I	Type K1-901G	4" round	18.56"	222	0.49
J	Type K1-901G	6" round	25.85"	586	1.30
K	Type K1-901G	4" round	26.43"	269	0.60
L	Type K1-901G	4" round	19.36"	227	0.51
M	Type K1-901G	6" round	27.30"	604	1.35
N	Type K1-901G	6" round	19.99"	505	1.12
O	Type K1-901G	8" round	27.30"	1051	2.34
P	Type K1-901G	6" round	26.43"	593	1.32
Q	Type K1-901G	4" round	27.17"	273	0.61
R	Type K1-901G	4" round	20.68"	235	0.52
S	Type K1-901G	4" round	18.99"	224	0.50
T	Type K1-901G	6" round	27.17"	6.02	1.34

**Note:** These are the pipe flow rates at the specified outlet, **NOT** channel flow rates. Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

#### 6" Oval inlet cap



#### K1-304-6

10.64" (270mm)

#### K1-404-6

12.61" (320mm)



#### 6" Oval outlet cap



#### K1-308-6

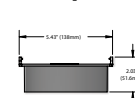
10.64" (270mm)

#### K1-408-6

12.61" (320mm)



#### End Cap



C



ACO Specification Information

## ACO DRAIN

## KlassikDrain - K100 Galvanized steel edge rail channel system



## ACO Specification Information

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight Lbs.
<b>K1-00 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>74041</b>	<b>3.94</b>	<b>100</b>	<b>28.1</b>
K1-1 Sloped channel - 39.37" (1m)	74001	4.13	105	28.1
K1-2 Sloped channel - 39.37" (1m)	74002	4.33	110	28.9
K1-3 Sloped channel - 39.37" (1m)	74003	4.53	115	29.7
K1-4 Sloped channel - 39.37" (1m)	74004	4.72	120	30.5
K1-5 Sloped channel - 39.37" (1m) <sup>D</sup>	74005	4.92	125	31.3
K1-6 Sloped channel - 39.37" (1m)	74006	5.12	130	32.1
K1-7 Sloped channel - 39.37" (1m)	74007	5.31	135	32.9
K1-8 Sloped channel - 39.37" (1m)	74008	5.51	140	33.7
K1-9 Sloped channel - 39.37" (1m)	74009	5.71	145	34.5
K1-10 Sloped channel - 39.37" (1m) <sup>D</sup>	74010	5.91	150	35.3
<b>K1-010 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>74043</b>	<b>5.91</b>	<b>150</b>	<b>35.3</b>
<b>K1-0103 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>74044</b>	<b>5.91</b>	<b>150</b>	<b>17.0</b>
K1-11 Sloped channel - 39.37" (1m)	74011	6.10	155	36.1
K1-12 Sloped channel - 39.37" (1m)	74012	6.30	160	36.9
K1-13 Sloped channel - 39.37" (1m)	74013	6.50	165	37.7
K1-14 Sloped channel - 39.37" (1m)	74014	6.69	170	38.5
K1-15 Sloped channel - 39.37" (1m) <sup>D</sup>	74015	6.89	175	39.3
K1-16 Sloped channel - 39.37" (1m)	74016	7.09	180	40.1
K1-17 Sloped channel - 39.37" (1m)	74017	7.28	185	40.9
K1-18 Sloped channel - 39.37" (1m)	74018	7.48	190	41.7
K1-19 Sloped channel - 39.37" (1m)	74019	7.68	195	42.5
K1-20 Sloped channel - 39.37" (1m) <sup>D</sup>	74020	7.87	200	43.4
<b>K1-020 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>74045</b>	<b>7.87</b>	<b>200</b>	<b>43.4</b>
<b>K1-0203 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>74046</b>	<b>7.87</b>	<b>200</b>	<b>20.5</b>
K1-21 Sloped channel - 39.37" (1m)	74021	8.07	205	44.2
K1-22 Sloped channel - 39.37" (1m)	74022	8.27	210	45.0
K1-23 Sloped channel - 39.37" (1m)	74023	8.46	215	45.8
K1-24 Sloped channel - 39.37" (1m)	74024	8.66	220	46.6
K1-25 Sloped channel - 39.37" (1m) <sup>D</sup>	74025	8.86	225	47.4
K1-26 Sloped channel - 39.37" (1m)	74026	9.06	230	48.2
K1-27 Sloped channel - 39.37" (1m)	74027	9.25	235	49.0

Description	Part No.	Invert Inches <sup>2</sup>	mm <sup>2</sup>	Weight Lbs.
K1-28 Sloped channel - 39.37" (1m)	74028	9.45	240	49.8
K1-29 Sloped channel - 39.37" (1m)	74029	9.65	245	50.6
K1-30 Sloped channel - 39.37" (1m) <sup>D</sup>	74030	9.84	250	51.4
<b>K1-030 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>74047</b>	<b>9.84</b>	<b>250</b>	<b>51.4</b>
<b>K1-0303 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>74048</b>	<b>9.84</b>	<b>250</b>	<b>24.0</b>
K1-31 Sloped channel - 39.37" (1m)	74031	10.04	255	52.2
K1-32 Sloped channel - 39.37" (1m)	74032	10.24	260	53.0
K1-33 Sloped channel - 39.37" (1m)	74033	10.43	265	53.8
K1-34 Sloped channel - 39.37" (1m)	74034	10.63	270	54.6
K1-35 Sloped channel - 39.37" (1m) <sup>D</sup>	74035	10.83	275	55.4
K1-36 Sloped channel - 39.37" (1m)	74036	11.02	280	56.2
K1-37 Sloped channel - 39.37" (1m)	74037	11.22	285	57.0
K1-38 Sloped channel - 39.37" (1m)	74038	11.42	290	57.9
K1-39 Sloped channel - 39.37" (1m)	74039	11.61	295	58.7
K1-40 Sloped channel - 39.37" (1m) <sup>D</sup>	74040	11.81	300	59.5
<b>K1-040 Neutral channel - 39.37" (1m)<sup>D</sup></b>	<b>74049</b>	<b>11.81</b>	<b>300</b>	<b>59.5</b>
<b>K1-0403 Neutral channel - 19.69" (0.5m)<sup>D</sup></b>	<b>74050</b>	<b>11.81</b>	<b>300</b>	<b>27.5</b>
K1-901G In-line catch basin - 19.69" (0.5m) <sup>D</sup>	94608	28.81	701.9	52.6
K1-621G catch basin - 19.69" (0.5m) <sup>D</sup>	94617	28.84	732.5	55.8
K1-631G catch basin - 19.69" (0.5m) <sup>D</sup>	94631	40.84	1037.4	65.8
K1-Series 600 Optional plastic riser	99902	-	-	10.0
Foul air trap - fits both 900 & 600 series basins	90854	-	-	1.2
K1-304-6 6" Inlet Cap	96839	9.84	250	5.2
K1-308-6 6" Outlet Cap	96840	9.84	250	5.0
K1-404-6 6" Inlet Cap	96834	11.81	300	6.0
K1-408-6 6" Outlet Cap	96836	11.81	300	5.8
Universal end cap	96822	11.81	300	0.4
Debris strainer for 4" bottom knockout	93488	-	-	0.2
4" Oval to 6" round outlet adapter	95140	-	-	1.1
K1-Installation device	97477	-	-	2.8
Grate removal tool	01318	-	-	0.3
K1-QuickLok locking bar	02899	-	-	0.1

**Notes:**

- This channel offers a bottom knockout feature; 4" round/6" oval.
- Inverts shown are for the male end; for female invert depth subtract 5mm (≈0.2") from the male invert (except for neutral channels, where it will be same as male invert).  
To calculate the overall channel depth add 20mm (≈0.8") to invert depth.
- This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, trash bucket and plastic base. Select an appropriate grate.
- This catch basin kit includes a polymer concrete top, removable Quicklok locking bar, deep trash bucket, plastic riser and plastic base. Select an appropriate grate.

**Specifications****General**

The surface drainage system shall be ACO Drain K100 complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or approved equal.

**Materials**

The trench system bodies shall be manufactured from polyester polymer concrete with the minimum properties as follows:

Compressive strength: 14,000 psi  
Flexural strength: 4,000 psi

Water absorption 0.07%  
Frost proof YES  
Salt proof YES  
Dilute acid and alkali resistant YES

The nominal clear opening shall be 4" (100mm) with overall width of 5.12" (130mm). Pre-cast units shall be manufactured with either an invert slope of 0.5% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a partial radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring keys on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. The galvanized steel edge rail will be integrally

cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 3/32" (2.5mm) thick.

**Grates**

Grates shall be specified. See separate ACO Spec Info grate sheets for details. After removal of gratings and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

**Installation**

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

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**SPEC INFO**  
**ACO**

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**September 2016**

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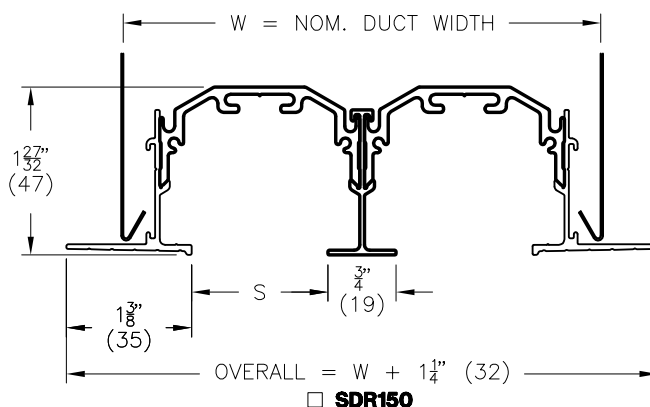
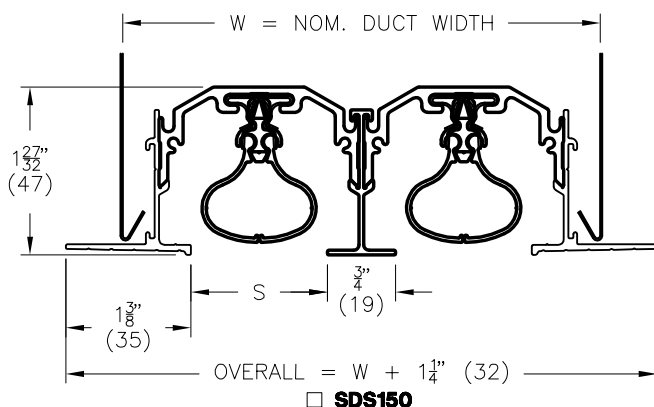
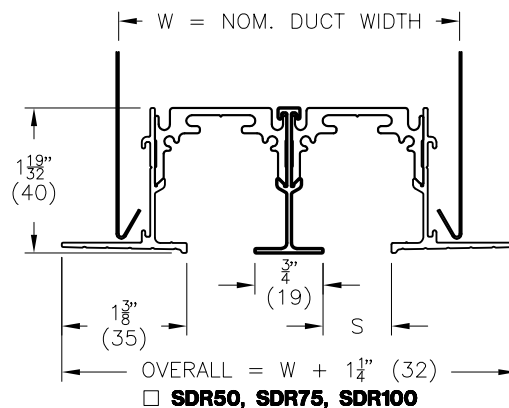
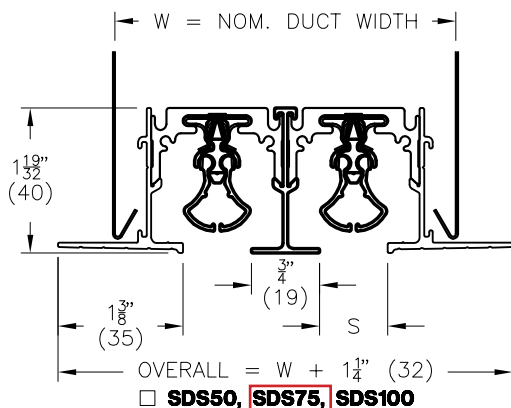
# **BURKE MOUNTAIN DISCOVERY CENTRE + COFFEE HOUSE HVAC EQUIPMENT SPECIFICATIONS**

ISSUED FOR COFFEE HOUSE RFP: 2020-10-02

## **GENERAL NOTES:**

1. To be read in conjunction with architectural, electrical, mechanical, structural drawings and specifications
2. Provide current, up-to-date product specifications as submittals for review by owner / consultants
3. Report products with long lead times or unavailable to the attention of the owner / consultants

## SDS / SDR LINEAR SLOT DIFFUSER - TYPE 8, 8A CONCEALED PLASTER FRAME APPLICATION

**FINISH:**

- PATTERN CONTROLLERS – B17 BLACK
- OUTER FRAMES – MILL FINISH
- CENTER TEE – B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- EXTRUDED ALUMINUM FRAME
- EXTRUDED ALUMINUM PATTERN CONTROLLERS ON MODELS SDS50, SDS150
- ROLLFORMED STEEL OR EXTRUDED ALUMINUM PATTERN CONTROLLERS ON SDS75, SDS100

**NOTE:**

- MINIMUM LENGTH 8" (203)
- MAXIMUM SECTION LENGTH 72" (1829)
- UNITS 6 SLOT AND LARGER SUPPLIED WITH 1" (25) REINFORCING ANGLES ATTACHED TO DIFFUSER
- 180° AIR PATTERN ADJUSTMENT AVAILABLE
- TAPING AND PLASTER FINISHING BY OTHERS
- SEE INSTALLATION INSTRUCTION I100044
- USE WITH TYPE 2 SDB / SDA PLENUM, OR UP / UPL
- FACTORY TOLERANCE  $\pm 1/32$ " (1)

**MODELS:**

## SUPPLY DIFFUSERS:

- SDS50 – 1/2" SLOT
- SDS75 – 3/4" SLOT
- SDS100 – 1" SLOT
- SDS150 – 1 1/2" SLOT

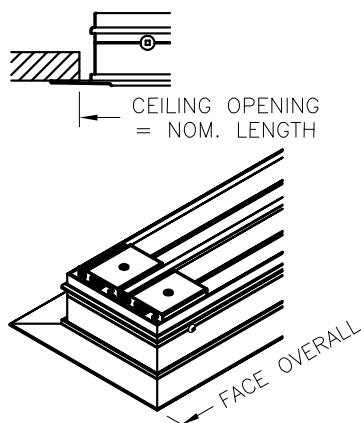
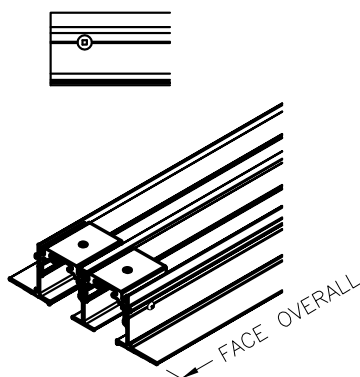
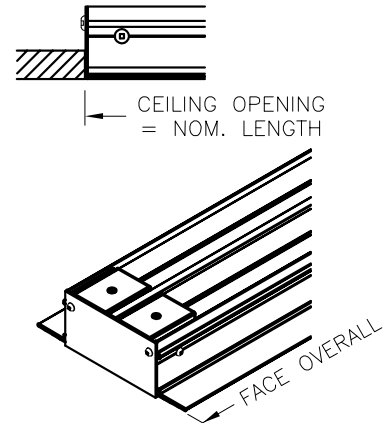
## RETURNS:

- SDR50 – 1/2" SLOT
- SDR75 – 3/4" SLOT
- SDR100 – 1" SLOT
- SDR150 – 1 1/2" SLOT

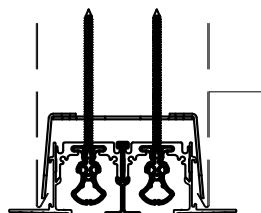
ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

<b>PROJECT:</b>		<b>PRICE®</b>	
<b>ENGINEER:</b>		 250099	<b>SDS / SDR</b> TYPE 8, 8A SURFACE MOUNTED LINEAR DIFFUSER CONCEALED PLASTER FRAME
<b>CUSTOMER:</b>			
<b>SUBMITTAL DATE:</b>	<b>SPEC. SYMBOL:</b>	2013/08/30	

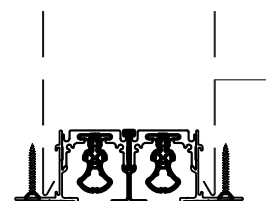
## SDS / SDR LINEAR SLOT DIFFUSER - TYPE 8, 8A CONCEALED PLASTER FRAME APPLICATION

**END CONDITIONS:**☐ **X - MITRED END**☐ **Y - OPEN END**FOR SPlicing TOGETHER  
MULTIPLE SECTIONS☐ **Z - FLUSH END CAP**SCREWHEADS EXTEND 1/8" (3) BEYOND  
OPENING DIMENSION ON Z ENDS

END CONDITION	FACE OVERALL LENGTH
X-X	NOM. LENGTH + 1 1/4" (32)
X-Y	NOM. LENGTH + 5/8" (16)
Y-Y	NOM. LENGTH
Y-Z	NOM. LENGTH
Z-Z	NOM. LENGTH

TAPE & PLASTER  
TO FINISH  
(BY OTHERS)**MOUNTING:**☐ **TYPE 8**☐ **TYPE 8A**

CONCEALED MOUNTING BRACKETS

COUNTERSUNK SCREW HOLES  
FOR DRYWALL SCREWS (BY OTHERS)

SLOTS	W			
	SDS50	SDS75	SDS100	SDS150
1	2" (51)	2 1/4" (57)	2 1/2" (64)	3" (76)
2	3 1/4" (83)	3 3/4" (95)	4 1/4" (108)	5 1/4" (133)
3	4 1/2" (114)	5 1/4" (133)	6" (152)	7 1/2" (191)
4	5 3/4" (146)	6 3/4" (171)	7 3/4" (197)	9 3/4" (248)
5	7" (178)	8 1/4" (210)	9 1/2" (241)	12" (305)
6	8 1/4" (210)	9 3/4" (248)	11 1/4" (286)	14 1/4" (362)
7	9 1/2" (241)	11 1/4" (286)	13" (330)	16 1/2" (419)
8	10 3/4" (273)	12 3/4" (324)	14 3/4" (375)	18 3/4" (476)
9	12" (305)	14 1/4" (362)	16 1/2" (419)	21" (533)
10	13 1/4" (337)	15 3/4" (400)	18 1/4" (464)	23 1/4" (591)

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**PROJECT:**

PRICE®

**ENGINEER:**

mg

**CUSTOMER:**

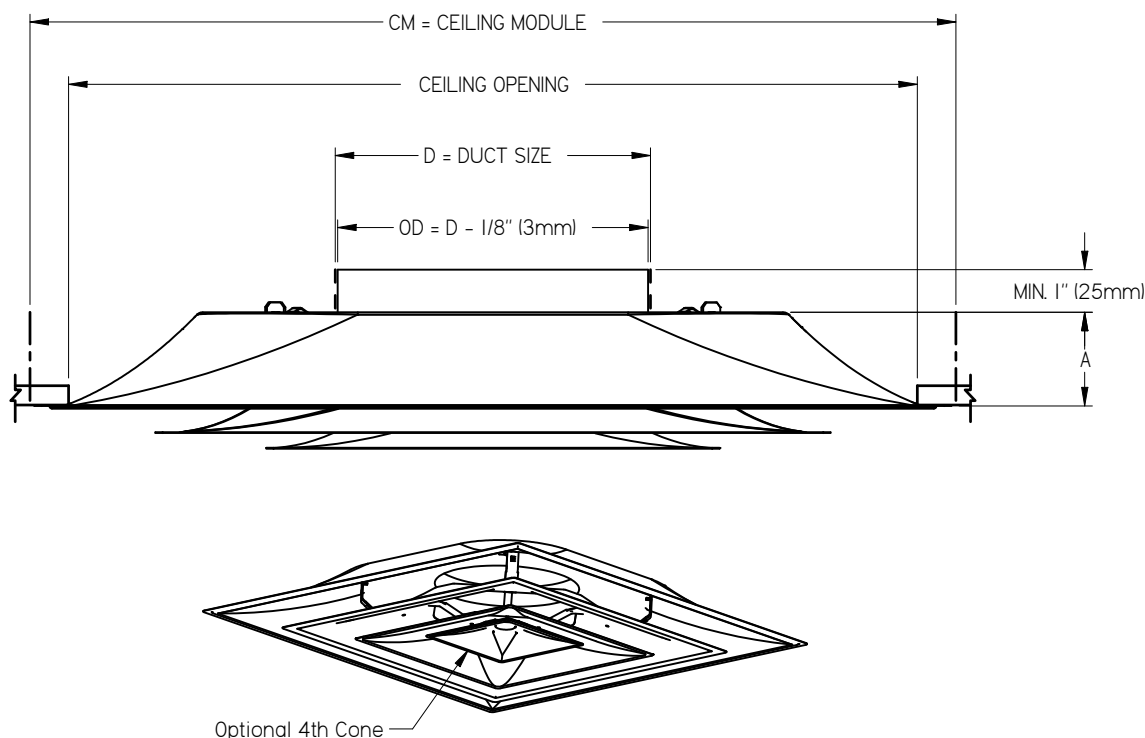
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**SUBMITTAL DATE:****SPEC. SYMBOL:**

2013/08/30

**SDS / SDR**  
TYPE 8, 8A  
SURFACE MOUNTED  
LINEAR DIFFUSER  
CONCEALED PLASTER FRAME

## SCD, ASCD Square Cone Diffuser



## STANDARD CONSTRUCTION:

- ☐ SCD - Steel construction  
☐ ASCD - Aluminum construction

## DAMPERS:

- ☐ VCR7 - Radial opposed blade steel damper (N/A with 4", 5", or 7" inlets)  
☐ VCR8 - Full Flow duct mounted steel damper  
☐ VCR8E - Full Flow diffuser mounted steel damper  
☐ VCR9 - Radial diffuser mounted steel damper (N/A with 4", 5", 7", or 15" inlets)

## SB - SECTORIZING BAFFLE:

Steel construction -

- ☐ 90 - 3 Way pattern  
☐ 180 - 2 Way pattern  
☐ 270 - 1 Way pattern  
 (N/A if a damper is selected)

## FINISH:

- ☐ B12 White  
 (Optional Finishes Available)

## OPTIONS:

- ☐ R6 - Insulated Backpan (style 31 or 4TS, N/A with 20"x20" or 500mm x 500mm)  
☐ AFI - 1/2" fiberglass with foil/scrim vapor barrier insulated backpan (style 31, 20"x20" or 500mm x 500mm only)  
☐ BN - Beaded Inlet Neck with extended depth (2 1/2" (64mm)). Not available on ASCD  
☐ FC - Fixed core is available only for 24"x24" & 600mm x 600mm styles 17 & 31. For surface mount installation use of plaster frame is recommended.  
☐ RC - Removable core is available for all sizes and styles  
☐ 4C - 4th cone (24"x24" and 600mm x 600mm units only)  
☐ MRI - aluminum construction. Available for ASCD 24"x24" & 600mm x 600mm, styles 31 & 17 only. Not available with 4th cone, dampers, or sectorizing baffle options.

Ceiling Module	Ceiling Opening	A	Duct Size								
			4"	5"	6"	7"	8"	10"	12"	14"	15"
12" x 12"	10 1/2" x 10 1/2"	1 1/8"	●	●	●	●	●				
20" x 20"	18" x 18"	2 1/2"			●		●	●			
24" x 24"	22" x 22"	2 1/2"			●		●	●	●	●	
300mm x 300mm	249mm x 249mm	29mm	●	●	●	●	●				
500mm x 500mm	449mm x 449mm	64mm			●		●	●			
600mm x 600mm	549mm x 549mm	64mm			●		●	●	●	●	

• indicates available inlet size

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**SCD / ASCD**  
**SQUARE CONE**  
**DIFFUSER**

218772

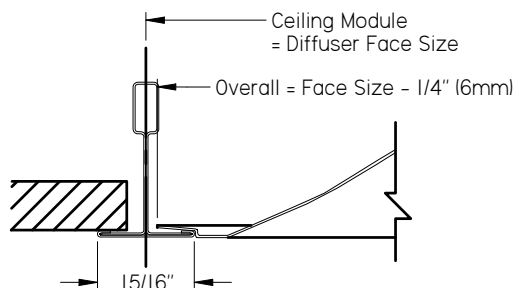
2018-08-24



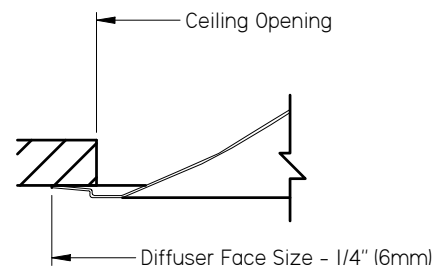
## SCD, ASCD Square Cone Diffuser

## Lay-in &amp; Surface Mount Frames:

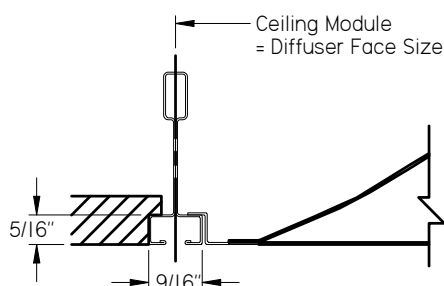
## □ 31 - 15/16" T-Bar Lay-In



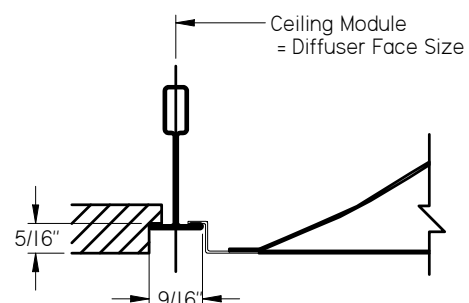
## □ 31 - Surface Mount



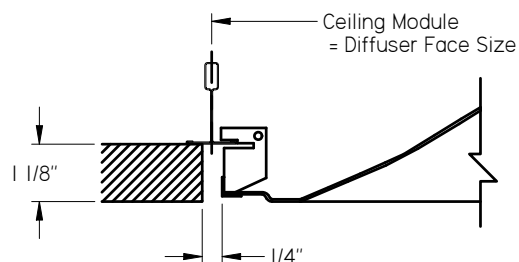
## □ 17 - 9/16" Bolt Slot T-bar



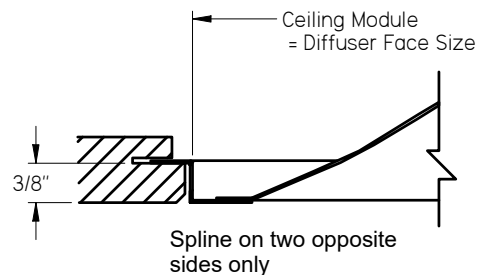
## □ 17 - 9/16" Tegular T-Bar



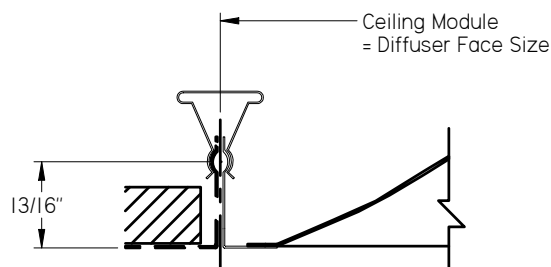
## □ 4TS Clip-On Recessed Spline (24"x24" only)



## □ 4 - Spline



## □ 2 - Snap-In



## NOTES:

- For 9/16" flat tee installation use style 31 with adaptor clips from ceiling supplier, or order 916 corner clip separately.
- 20" x 20" & 500mm x 500mm available in style 31 only
- ASCD available with style 31 and 17 only
- Dampers and sectorizing baffles ship loose
- Factory tolerance  $\pm 1/32"$  (1mm)

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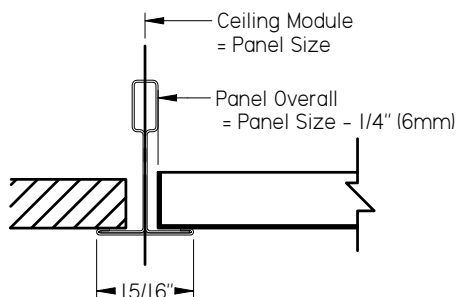
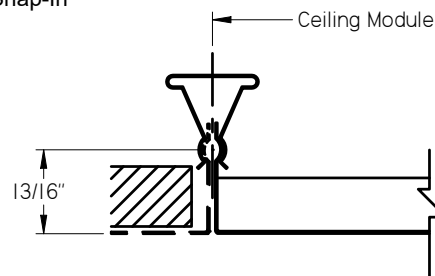
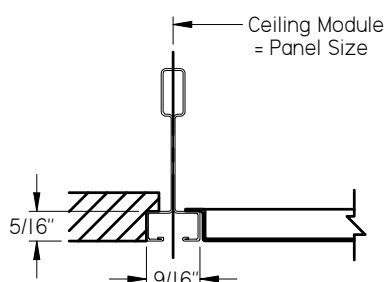
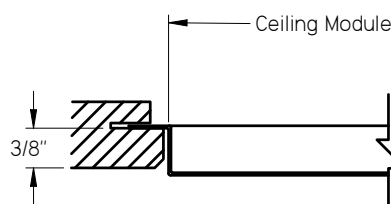
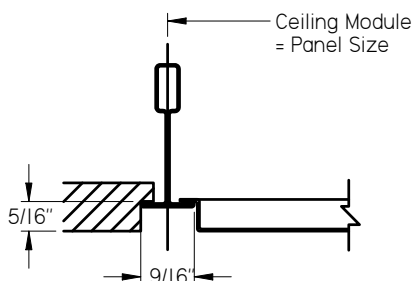
**SCD / ASCD**  
**SQUARE CONE**  
**DIFFUSER**

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2018-08-24

## SCD, ASCD Square Cone Diffuser

## Lay-in Panels: Available in SCD only

☐ 3P - 15/16" T-Bar Lay-In☐ 2P - Snap-In☐ 17P - 9/16" Bolt Slot T-bar☐ 4P - Spline☐ 17P - 9/16" Tegular T-Bar

## PANEL SIZE:

## 12" x 12" face size:

- ☐ 24" x 12" panel
- ☐ 16" x 16" panel
- ☐ 20" x 20" panel
- ☐ 24" x 24" panel
- ☐ 48" x 12" panel

## 24" x 24" face size:

- ☐ 30" x 30" panel
- ☐ 48" x 24" panel

## 300mm x 300mm face size:

- ☐ 600mm x 300mm panel
- ☐ 400mm x 400mm panel
- ☐ 500mm x 500mm panel
- ☐ 600mm x 600mm panel
- ☐ 1200mm x 300mm panel

## 600mm x 600mm face size:

- ☐ 750mm x 750mm panel
- ☐ 1200mm x 600mm panel

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PROJECT:

ENGINEER:

CUSTOMER:

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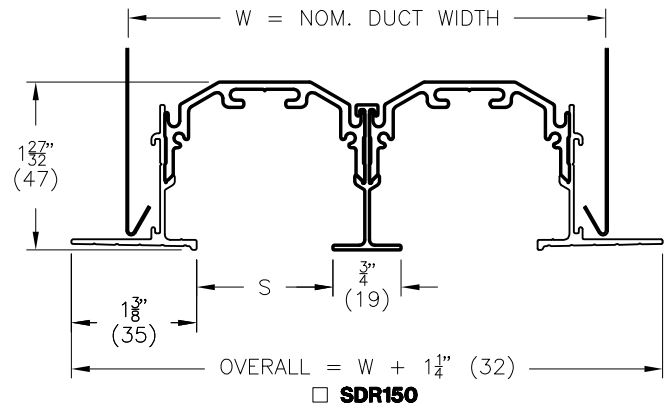
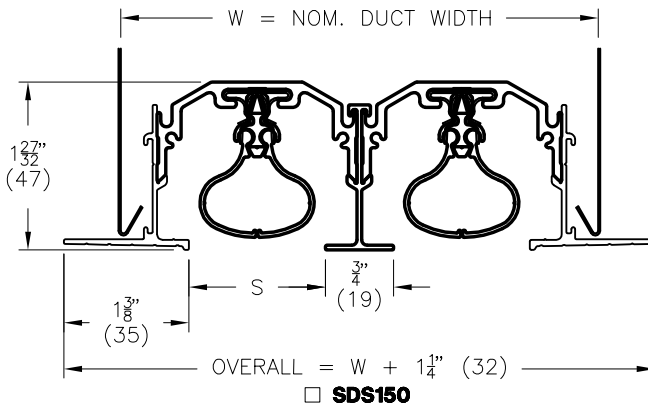
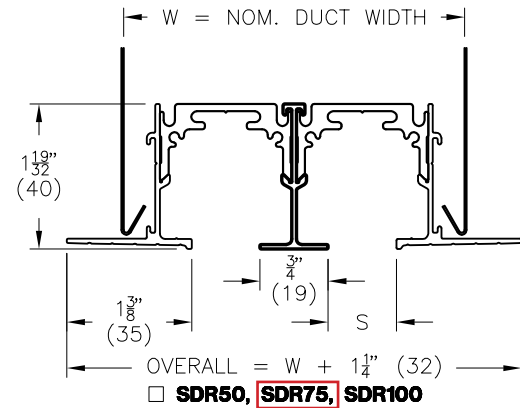
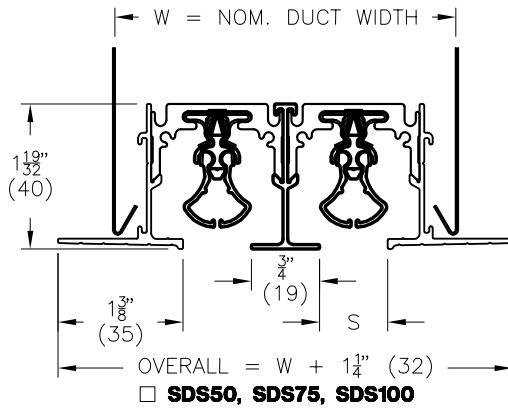
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2018-08-24

**SCD / ASCD**  
**SQUARE CONE**  
**DIFFUSER**

## SDS / SDR LINEAR SLOT DIFFUSER - TYPE 8, 8A CONCEALED PLASTER FRAME APPLICATION

**FINISH:**

- PATTERN CONTROLLERS - B17 BLACK
- OUTER FRAMES - MILL FINISH
- CENTER TEE - B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**MATERIAL:**

- EXTRUDED ALUMINUM FRAME
- EXTRUDED ALUMINUM PATTERN CONTROLLERS ON MODELS SDS50, SDS150
- ROLLFORMED STEEL OR EXTRUDED ALUMINUM PATTERN CONTROLLERS ON SDS75, SDS100

**NOTE:**

- MINIMUM LENGTH 8" (203)
- MAXIMUM SECTION LENGTH 72" (1829)
- UNITS 6 SLOT AND LARGER SUPPLIED WITH 1" (25) REINFORCING ANGLES ATTACHED TO DIFFUSER
- 180° AIR PATTERN ADJUSTMENT AVAILABLE
- TAPING AND PLASTER FINISHING BY OTHERS
- SEE INSTALLATION INSTRUCTION I100044
- USE WITH TYPE 2 SDB / SDA PLENUM, OR UP / UPL
- FACTORY TOLERANCE  $\pm 1/32"$  (1)

**MODELS:**


## SUPPLY DIFFUSERS:

- SDS50 - 1/2" SLOT
- SDS75 - 3/4" SLOT
- SDS100 - 1" SLOT
- SDS150 - 1 1/2" SLOT

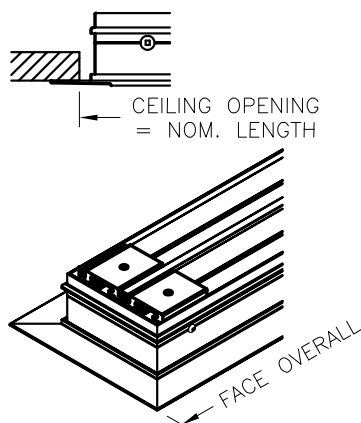
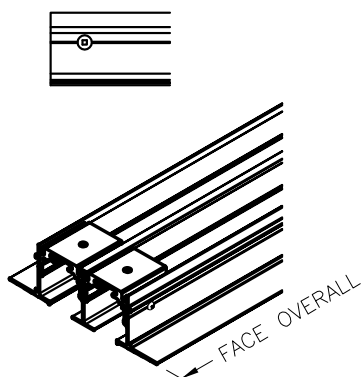
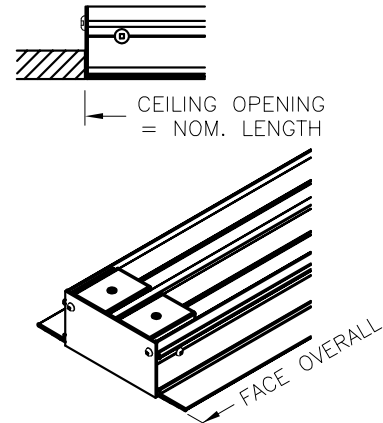
## RETURNS:

- SDR50 - 1/2" SLOT
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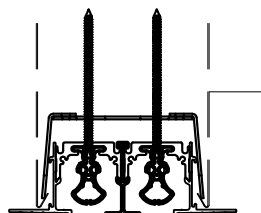
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PROJECT:		PRICE®	
			SDS / SDR TYPE 8, 8A SURFACE MOUNTED LINEAR DIFFUSER CONCEALED PLASTER FRAME
ENGINEER:		250099	
CUSTOMER:			
SUBMITTAL DATE:	SPEC. SYMBOL:	2013/08/30	

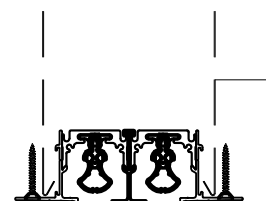
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**END CONDITIONS:**☐ **X - MITRED END**☐ **Y - OPEN END**FOR SPlicing TOGETHER  
MULTIPLE SECTIONS☐ **Z - FLUSH END CAP**SCREWHEADS EXTEND 1/8" (3) BEYOND  
OPENING DIMENSION ON Z ENDS

END CONDITION	FACE OVERALL LENGTH
X-X	NOM. LENGTH + 1 1/4" (32)
X-Y	NOM. LENGTH + 5/8" (16)
Y-Y	NOM. LENGTH
Y-Z	NOM. LENGTH
Z-Z	NOM. LENGTH

TAPE & PLASTER  
TO FINISH  
(BY OTHERS)**MOUNTING:**☐ **TYPE 8**☐ **TYPE 8A**

CONCEALED MOUNTING BRACKETS

COUNTERSUNK SCREW HOLES  
FOR DRYWALL SCREWS (BY OTHERS)

SLOTS	W			
	SDS50	SDS75	SDS100	SDS150
1	2" (51)	2 1/4" (57)	2 1/2" (64)	3" (76)
2	3 1/4" (83)	3 3/4" (95)	4 1/4" (108)	5 1/4" (133)
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**PROJECT:**

PRICE®

**ENGINEER:**

mg

**CUSTOMER:**

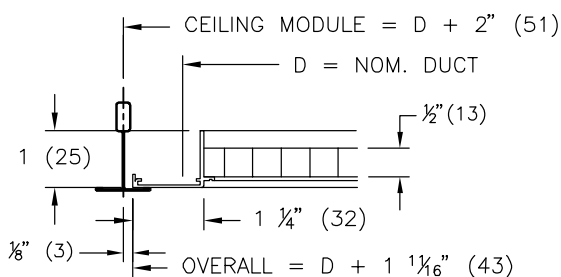
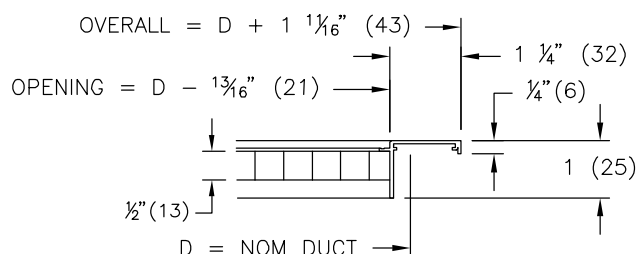
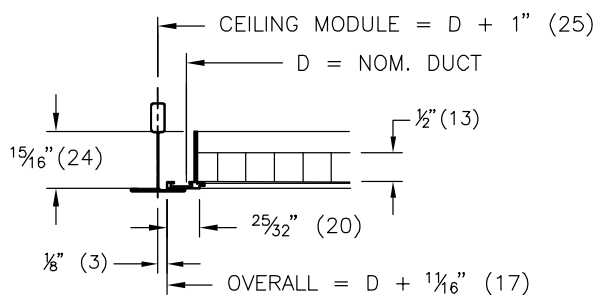
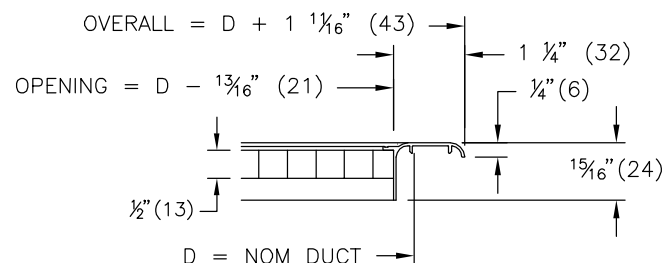
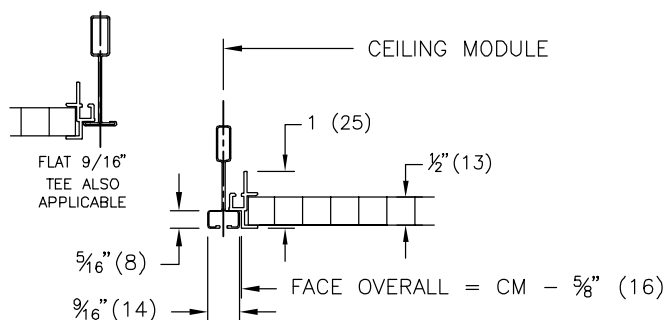
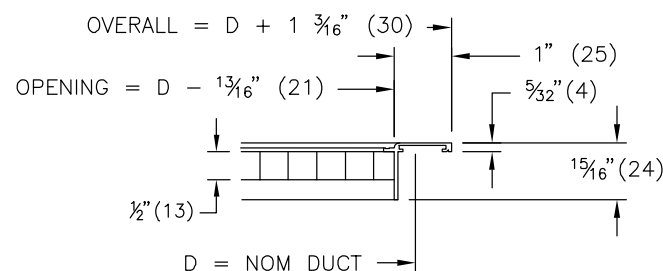
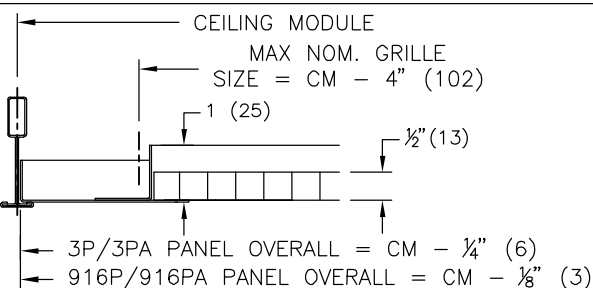
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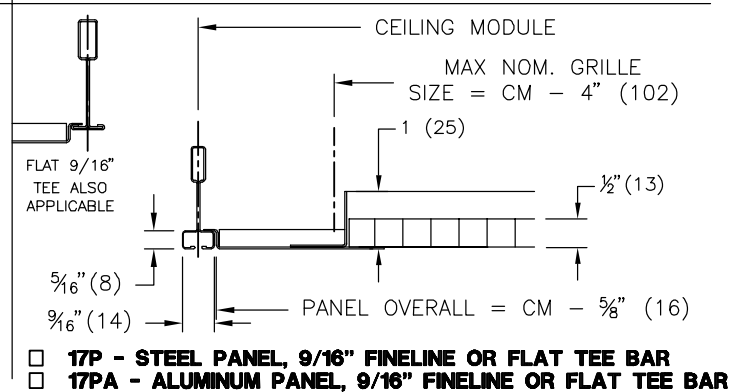
2013/08/30

**SDS / SDR**  
TYPE 8, 8A  
SURFACE MOUNTED  
LINEAR DIFFUSER  
CONCEALED PLASTER FRAME

## 80 RETURN GRILLES &amp; REGISTERS

☐ **F - FLAT FACE BORDER (T-BAR LAYIN)**☐ **F - FLAT FACE BORDER (SURFACE MOUNT)**☐ **NF - NARROW FACE BORDER (T-BAR LAYIN)**☐ **C - CURVED FACE BORDER (SURFACE MOUNT)**☐ **17 - 9/16" BOLT SLOT OR FLAT TEE BAR**☐ **N - NARROW FLAT FACE BORDER (SURFACE MOUNT)**

- ☐ **3P - STEEL PANEL FOR 1" FLAT TEE BAR**  
☐ **3PA - ALUMINUM PANEL FOR 1" FLAT TEE BAR**  
☐ **916P - STEEL PANEL FOR 9/16" FLAT TEE BAR**  
☐ **916PA - ALUMINUM PANEL FOR 9/16" FLAT TEE BAR**



- ☐ **17P - STEEL PANEL, 9/16" FINELINE OR FLAT TEE BAR**  
☐ **17PA - ALUMINUM PANEL, 9/16" FINELINE OR FLAT TEE BAR**

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

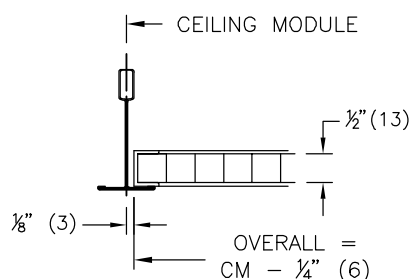
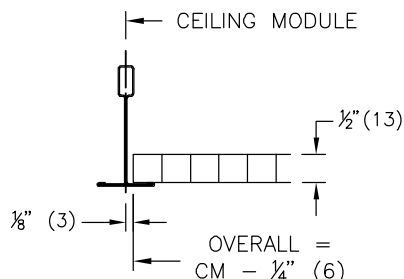
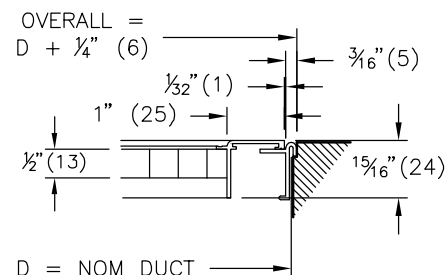
PRICE®

80 SERIES

ALUMINUM RETURN  
GRILLES & REGISTERS

222015

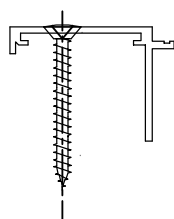
2015/12/03


☐ **CH - CHANNEL BORDER (T-BAR LAYIN)**

☐ **CORE - CORE ONLY (T-BAR LAYIN)**


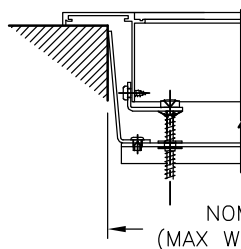
ED APPLICATION IS SUPPLIED COMPLETE WITH BORDER AND DUCT MOUNTING FRAME  
REQUIRES SELECTION OF TYPE 'H' OR TYPE 'C' MOUNTING

☐ **ED - EXPOSED DUCT BORDER**

### FASTENING

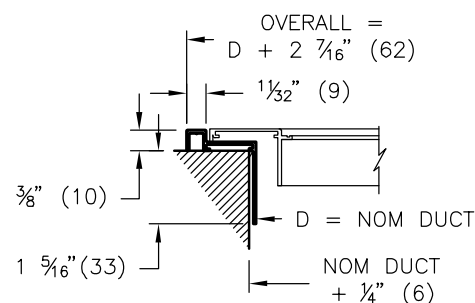


- ☐ **A - COUNTER SUNK SCREW**  
☐ **H - STRAIGHT SCREW HOLES (ED FRAME ONLY)**



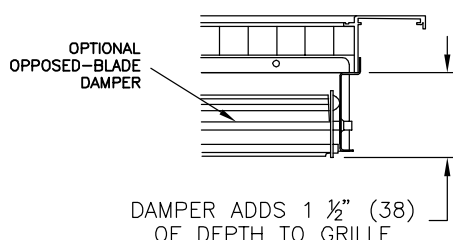
- ☐ **C - CONCEALED MOUNTING BRACKET**  
NOT AVAILABLE FOR MRI APPLICATIONS

### MOUNTING FRAME



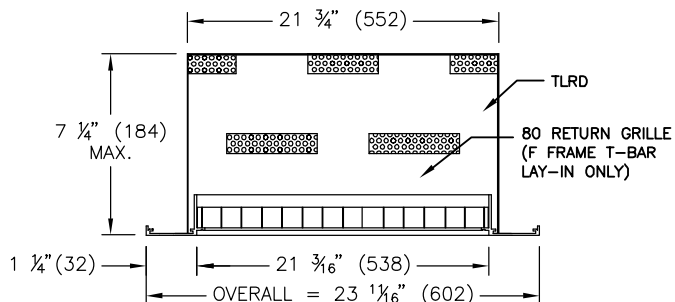
- ☐ **D (FOR F FRAME ONLY)**  
NOT AVAILABLE FOR MRI APPLICATIONS

### OPPOSED BLADE DAMPER



- ☐ **VCS3 - COATED STEEL OPPOSED BLADE DAMPER**  
☐ **VCS3AL - ALUMINUM OPPOSED BLADE DAMPER**

### THIN LINE RETURN DISSIPATER



- ☐ **TLRD OPTION (NOM. SIZE 22\"/>**

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

#### FINISH:

- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

#### MATERIAL:

- GRILLE - ALUMINUM CONSTRUCTION
- PANEL - STEEL CONSTRUCTION (3P, 916P & 17P)  
- ALUMINUM CONSTRUCTION (3PA, 916PA & 17PA)

#### NOTES:

- AVAILABLE SIZES:  
MINIMUM - 6\"/>

#### PANEL SIZES:

- MODULE SIZE AND NOM. GRILLE SIZE MUST BE SPECIFIED

NOMINAL MODULE SIZES	MAXIMUM GRILLE SIZES
12" x 12" – 300mm x 300mm	8" x 8"
24" x 12" – 600mm x 300mm	20" x 8"
24" x 24" – 600mm x 600mm	20" x 20"
48" x 24" – 1200mm x 600mm	44" x 20"

#### OPTIONAL:

- MRI - ALUMINUM CONSTRUCTION FOR MRI APPLICATIONS.  
F, 17, CH, CORE FRAMES ONLY. NOT AVAILABLE W/ DAMPER.  
MAXIMUM SIZE = 24\"/>

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

PRICE®

*mg*

222015

2015/12/03

**80 SERIES**

ALUMINUM RETURN  
GRILLES & REGISTERS



# **BURKE MOUNTAIN DISCOVERY CENTRE + COFFEE HOUSE LIGHTING SPECIFICATIONS**

ISSUED FOR COFFEE HOUSE RFP: 2020-10-02

## **GENERAL NOTES:**

1. To be read in conjunction with architectural, electrical, structural drawings and specifications
2. Provide current, up-to-date product specifications as submittals for review by owner / consultant
3. Report products with long lead times or unavailable to the attention of the owner / consultant

# ELT-1

## EXTERIOR POT LIGHT

ALPHABET  
LED brands

Alphabet by Ledra Brands, Inc.

15774 Gateway Circle  
Tustin, CA 92780

PH: 714.259.9959  
FAX: 714.259.9969

AlphabetLighting.com



LM-79

JOB NAME

CONTACT

ORDERING CODE

### ORDERING CODE

SERIES

NU4

TYPE

QA square adjustable

QAT square adjustable trimless

LED

SW static white

DELIVERED  
LUMENS

(3000K 80CRI S35)

07LM 570 lm  
10LM 820 lm  
13LM 1060 lm  
20LM 1640 lm  
27LM 2210 lm

Calculated Delivered Lumens =  
[Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]

CCT

22K 2200K  
27K 2700K  
30K 3000K  
35K 3500K  
40K 4000K  
50K 5000K

CCT

2200K 2700K 3000K 3500K 4000K 5000K

CRI

80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+ 80+ 90+

CCT MULTIPLIER FOR LUMEN OUTPUT

0.85 N/A 0.96 0.81 1.00 0.84 1.01 0.85 1.03 0.87 1.04 N/A

CRI

80 80CRI

90 90CRI

REFLECTOR  
& LM MULTIPLIER

S35 35° specular, no lens (1.00)  
D50 50° diffused, no lens (0.93)  
D60 60° diffused, no lens (0.90)  
SC35 35° specular with clear lens (0.99)  
DC50 50° diffused with clear lens (0.92)  
DC60 60° diffused with clear lens (0.89)  
HE60 60° high efficiency diffused lens (0.93)  
HE70 70° high efficiency diffused lens (0.90)  
HEQ50 50° high efficiency square diffused lens (0.90)  
HEQ60 60° high efficiency square diffused lens (0.91)  
HEQ70 70° high efficiency square diffused lens (0.89)

VOLTAGE

120 120V

277 277V

See Electrical Options for 347V.

DIMMING

DIM10<sup>3</sup> standard driver with flicker free 0-10V dimming to 1%  
DIM10Z<sup>2</sup> flicker free 0-10V dimming to 0%  
DALI<sup>3</sup> flicker free DALI dimming to 1%  
DALIZ<sup>3</sup> flicker free DALI dimming to 0%  
DMXZ flicker free DMX dimming to 0%  
LTE Lutron Hi-lume 2-Wire (Triac) dimming to 1%  
LUT Lutron Hi-lume EcoSystem dimming to 1%,  
Soft-on & Fade-to-Black  
LUTP<sup>4</sup> Lutron Hi-lume Premier EcoSystem dimming to 0.1%,  
Soft-on & Fade-to-Black  
ELV<sup>4</sup> leading & trailing edge (Triac/ELV) dimming to <10%  
ELV<sup>4</sup> leading & trailing edge (Triac/ELV) dimming to 1%

MOUNTING  
OPTIONS

NC new construction with ceiling fitting plate  
IC<sup>3</sup> insulation contact housing  
ICAT<sup>2</sup> insulation contact / airtight housing  
RET chicago plenum housing  
retrofit, no ceiling fitting plate

TRIM  
COLOR<sup>7</sup>

WH white  
MC matte chrome  
BK black  
BZ bronze  
WT wheat

BEZEL  
COLOR

WH white  
MC matte chrome  
BK black  
BZ bronze  
WT wheat

ELECTRICAL  
OPTIONS

EM7<sup>5</sup> emergency battery backup, 90 minutes at 7 watts to LED  
EM12<sup>5</sup> emergency battery backup, 90 minutes at 12 watts to LED  
FOR 347V order separate "347V to 277V" step down transformer  
OPTION p/n: P70489

### ORDERING CODE

NU4-QAT-SW-27LM-30K-90-S35-120-DIM10-NC-WH-WH

Follow the steps to specify your fixture, example:

NU4 - QA - SW - 13LM - 35K - 90 - D50 - 120 - DIM10 - NC - WH - WH - EM7

SW (LED)	POWER
DELIVERED LM	W (80/90 CRI)
570	7
820	9
1060	12
1640	16
2210	22

Power Factor ≥ 0.9

### NOTES

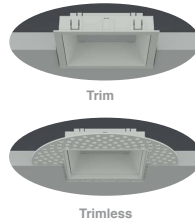
- 90 CRI not available in 2200K or 5000K.
- IC/ICAT/CP not available in 20LM or 27LM.
- Driver uses logarithmic dimming curve as standard. For linear dimming curve add "LIN" after dimming code, i.e. DIM10LIN.
- Triac/ELV dimming available in 120V only.
- For integrated test switch add "TTS" after emergency backup code, i.e. EM12TTS. Test switch is mounted in the bezel of the fixture.
- LUTP not available in 27LM.
- For trimless option eliminate "Trim Color Code" from catalog string.  
Example: NU4 - QAT - SW - 13LM - 35K - 90 - D50 - 120 - DIM10 - NC - WH - EM

## Square Adjustable

COB



eldoLED<sup>®</sup>  
your product | our drive



### DESCRIPTION

The EcoNU4QA is an economical and highly efficient spec grade 4" recessed adjustable with thoughtful construction and pleasing aesthetics. Standard with premium dimming using EldoLED 1% flicker free drivers in 120V, 277V, and step down transformer for 347V. An adjustable hot-aiming system allows tilt adjustments from 0° to 40° with 360° rotation. The aiming adjustment and locking mechanisms are accessible from below the ceiling while the reflector is installed. A complex tilting mechanism positions the tilting axis for the maximum optical performance at all angles.

For the trim version, a minimalistic look is achieved with an ultrathin 1/16" trim that is only 5/16" wide. Color choices of both trim and bezel are offered for a customized look. For the trimless version, a perforated, mud up, regressed trim assembly provides for clean, trim free installation. Perforated mud frame's integrated lip helps guide the joint compound creating a sharp and clean opening.

### HOUSING

Electrocoated 16-gauge cold-rolled steel provides enhanced structural reinforcement and rust prevention. Superior, UL-certified, injection-molded commercial-grade Lexan™ (PC) is used for the frame and regressed bezel trim. Lexan provides unmatched durability and impact resistance, and is tested for UV resistance and water exposure in outdoor applications. The thermally-advanced, anodized heat sink uses 6063 aluminum alloy. A 90-minute constant-power IOTA emergency battery backup is available.

### MOUNTING

An advanced mounting system allows for quick and secure installation with LED and driver serviceability from below the ceiling. The LED assembly uses die-cast aluminum mounting clamp grips (MCG) that swing out to tighten onto variable ceiling thicknesses. Integrated rubber feet on each MCG provide a non-slip vibration-resistant installation. The hidden MCG system is accessible from below ceiling by removing the snap-in lens/bezel assembly with either the included suction cup or a screwdriver blade. Integrated bar hangers feature integral toothed nails, T-bar mounting slots with locking holes, tabs for joist positioning. Retrofit mounting option allows for installation from below ceiling by use of compact driver box. No risk damaging LED or bezel assembly during installation, these are installed during last steps. Fixture and driver are easily removed for servicing after install without damaging drywall.

MOUNTING DIMENSIONS	CEILING THICKNESS	CEILING CUTOUT	New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Trim	1/8" to 1-1/4"	4-1/4" square	Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	Extends a pair of Bar Hangers Total Mounting Length: 29" to 48"
Trimless	3/8" to 1-3/4"	4-1/2" square		

### LISTINGS

- ETLus Listed to UL1598, cETL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, Lexan dead-front construction
- Made in the USA – meets the requirements of the Buy American provision within the ARRA

RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
Type non-IC	✓	✓			
Type IC			✓	✓	✓
Chicago Plenum (CCEA)					✓
Suitable for air handling plenums				✓	✓
Reduced airflow (with lens) ASTM E283	✓	✓	✓	✓	✓

### LED INFO

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance:  $L_{70} > 49,500$  hrs
- 80 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance:  $L_{70} > 49,500$  hrs

# ELT-1

## EXTERIOR POT LIGHT



Alphabet by Ledra Brands, Inc.

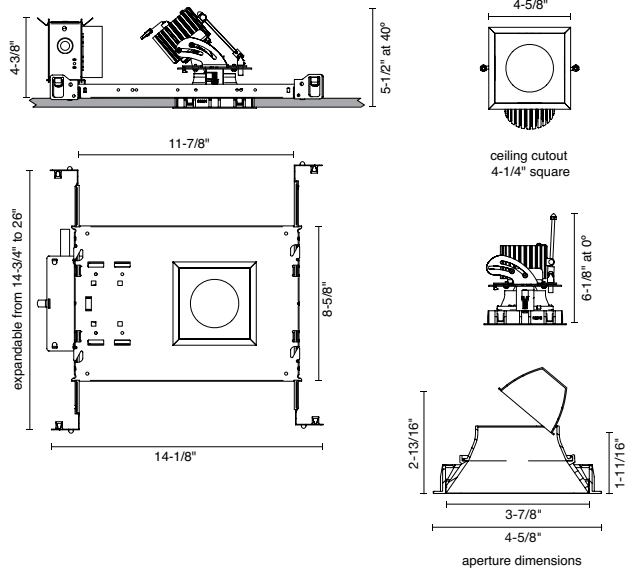
15774 Gateway Circle  
Tustin, CA 92780

PH: 714.259.9959  
FAX: 714.259.9969

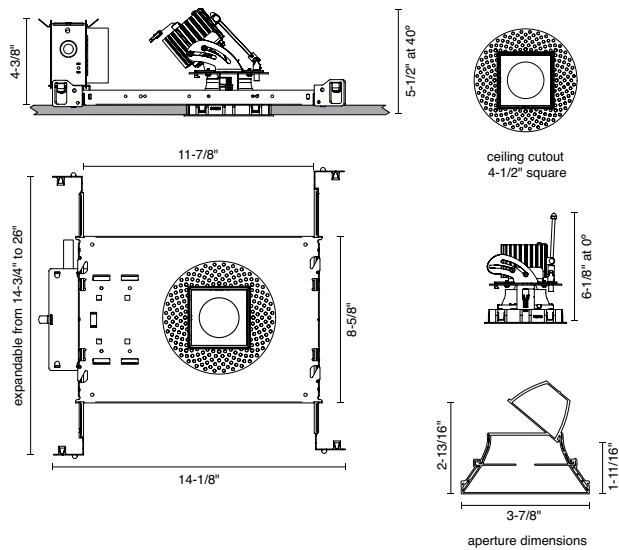
AlphabetLighting.com

### MOUNTING OPTIONS

#### NC - NEW CONSTRUCTION TRIM



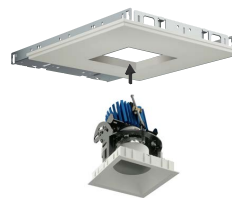
#### NC - NEW CONSTRUCTION TRIMLESS



1. Fasten mud frame to ceiling.



2. Insert protective cover (included).  
Apply joint compound over the mud frame.



3. Install LED assembly.



4. Install bezel.

# ELT-1

## EXTERIOR POT LIGHT



Alphabet by Ledra Brands, Inc.

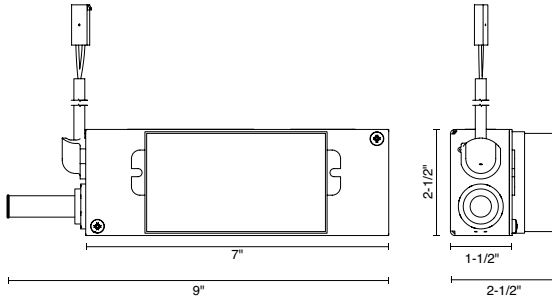
15774 Gateway Circle  
Tustin, CA 92780

PH: 714.259.9959  
FAX: 714.259.9969

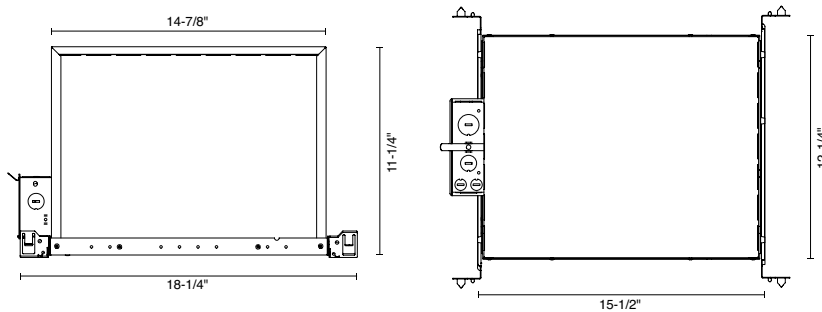
AlphabetLighting.com

### MOUNTING OPTIONS (CONTINUED)

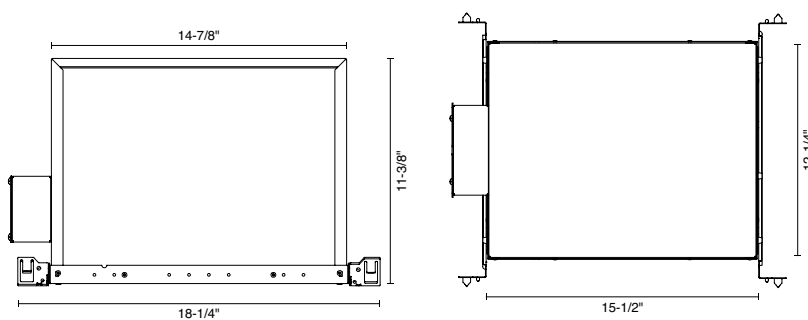
#### RET - RETROFIT TRIM/TRIMLESS



#### IC<sup>1</sup> - INSULATION CONTACT HOUSING TRIM/TRIMLESS



#### CP - CHICAGO PLENUM ICAT - INSULATION CONTACT / AIR TIGHT TRIM/TRIMLESS



#### NOTES

1 Consult factory for smaller IC Housings when selecting lower lumen packages.

# ELT-1

## EXTERIOR POT LIGHT



Alphabet by Ledra Brands, Inc.

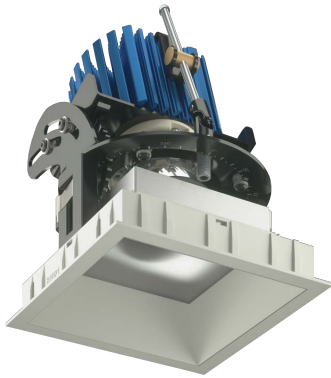
15774 Gateway Circle  
Tustin, CA 92780

PH: 714.259.9959  
FAX: 714.259.9969

[AlphabetLighting.com](http://AlphabetLighting.com)

### SQUARE LENS OPTION

HEQ50 50° high efficiency square diffused lens  
HEQ60 60° high efficiency square diffused lens  
HEQ70 70° high efficiency square diffused lens



TRIM VERSION WITH SQUARE LENS



TRIMLESS VERSION WITH SQUARE LENS

# ELT-3

## EXTERIOR WALL MOUNTED LED

**KEENE**

by  **signify**

Wall mount

LytePro

LPW7 small wall sconce



**Keene** LytePro LED small wall sconce LPW7 features outstanding value in a compact, architectural design, and combines energy savings with good photometric performance. LPW7 is ideal for entryways, corridors, facade and other wall/surface lighting applications.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

Example: LPW7-10-NW-G3-2-120-PCB-BZ

Prefix		Wattage		LED Color/Gen		Distribution		Voltage		Options		Finish	
LPW7		10		WW-G3		2		UNV		PCB		BK	
LPW7	LytePro 7 LED small wall sconce	10	10W	NW-G3	Neutral White 4000K 70 CRI Generation 3	2	Type 2	120	120V	---	None	<b>Textured</b>	
				WW-G3	Warm White 3000K 70 CRI Generation 3			208	208V	PCB	Photocontrol Button <sup>1</sup>	BK	Black
								240	240V			WH	White
								277	277V			BZ	Bronze
								UNV	120-277V (50/60Hz)			DGY	Dark Gray
												MGY	Medium Gray
												<b>Customer specified</b>	
												RAL	Specify optional color or RAL (ex: OC-LGP or OC-RAL7024)
												CC	Custom color (Must supply color chip for required factory quote)

### Stocked luminaires – Ordering guide

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW7-G3-8-BZ	LPW7, 250mA, 4000K, 120-277V, Bronze textured paint	6	622252813858
LPW7-G3-8-DGY	LPW7, 250mA, 4000K, 120-277V, Dark gray textured paint	6	622252813841

### Stocked accessories – Ordering guide (Must be ordered separately)

Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRPLT-BZ <sup>2</sup>	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	190096144860

<sup>1</sup> Must specify voltage.

<sup>2</sup> Other colors available upon request as made-to-order





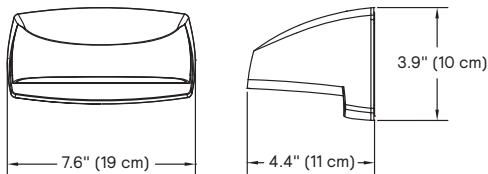
# ELT-3

## EXTERIOR WALL MOUNTED LED

### LPW7 LytePro

#### LED small wall sconce

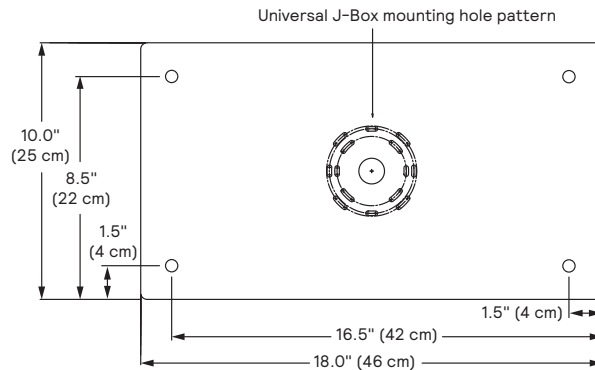
##### Dimensions



Luminaire weight: 4 lbs (1.8 kg)

##### Accessory dimensions (ordered separately)

LPWCVRPLT LPW Universal wall cover mounting plate, 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.



##### LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2		
					Lumen Output	BUG Rating	Efficacy (LPW)
LPW-7-10-NW-G3-2	18	250	4000	9.7	1050	B1-U0-G0	108
LPW-7-10-WW-G3-2	18	250	3000	9.7	1051	B1-U0-G0	108

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown.

Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

##### Predicted lumen depreciation data

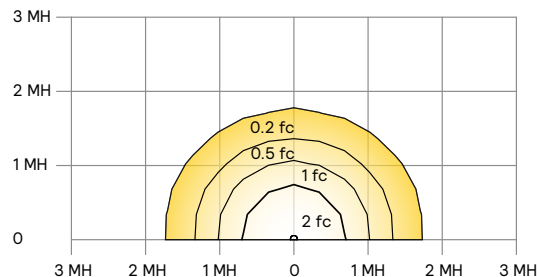
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology.

Actual experience may vary due to field application conditions.  $L_{70}$  is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published  $L_{70}$  hours limited to 6 times actual LED test hours

Ambient Temperature °C	Calculated $L_{70}$ Hours	$L_{70}$ per TM-21	Lumen Maintenance % at 60,000 hrs
up to 40°C	>200,000 hours	>60,000 hours	>92%

##### Optical distribution

Based on LPW7-10-NW-G3-2 at 10' mounting height



##### LPW7 10' mounting height

Mounting height	6 ft	8 ft	10 ft
Multiplier	1.23	1.14	1.00

# ELT-3

## EXTERIOR WALL MOUNTED LED

### LPW7 LytePro

#### LED small wall sconce

##### General Description

LytePro LED small wall sconce LPW7 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW7 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Two SKU's are available as in-stock configurations (2-day quick ship).

##### Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

##### Mounting

Easy interlocking hook and mount housing/backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes (mounted horizontally) or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

##### IP Rating

Optical compartment is IP65 rated.

##### LED Board and Array

Provides up to 108 lm/W at the system level. Standard color temp is 4000K or 3000K +/- 130K, minimum 70 CRI.

##### Electrical

Driver efficiency (>89% standard). 120-277V. Temp range: -40°C (-40°F) to 40°C (104°F). Open/short circuit protection. RoHS compliant.

##### Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). DesignLights Consortium® qualified.

##### Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish.

##### Warranty

LPW7 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See [www.signify.com/warranties](http://www.signify.com/warranties) for details.



# LT-2

## INTERIOR TRACK

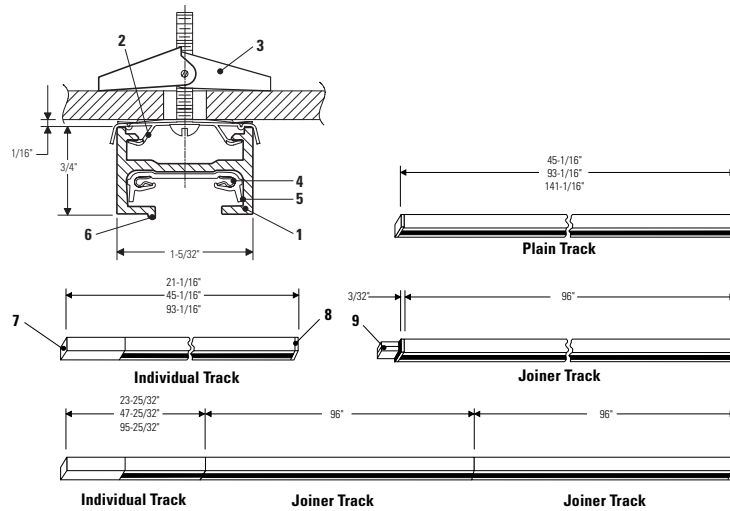
**LIGHTOLIER**  
by **Signify**

### Track Lighting

Lytespan

6000 Basic 1 Circuit Track

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_



6000NWH	6003NAL	6049NWH	6054NBK	26082
6000NBK	6004NWH	6049NBK	6060NWH	6087
6000NAL	6004NBK	6050NWH	6060NBK	6088
6001NWH	6004NAL	6050NBK	6061NWH	6089
6001NBK	6008NWH	6051NWH	6061NBK	7480
6001NAL	6008NBK	6051NBK	6062VWH	7480AL
6002NWH	6008NAL	6052NWH	6062BK	7481
6002NBK	6046NWH	6052NBK	6062NAL	7582
6002NAL	6046NBK	6053NWH	6063VWH	7582AL
6003NWH	6048NWH	6053NBK	6063BK	7584
6003NBK	6048NBK	6054NWH	6063NAL	7586

Finishes	Individual Track			Joiner Track	Plain Track		
	Includes Live End Feed Connector			Includes Mini Coupler	Includes Dead End		
	2' Catalog No.	4' Catalog No.	8' Catalog No.	8' Catalog No.	4' Catalog No.	8' Catalog No.	12' Catalog No.
Matte White	6000NWH	6001NWH	6002NWH	6003NWH	6004NWH	6008NWH	6012NWH
Matte Black	6000NBK	6001NBK	6002NBK	6003NBK	6004NBK	6008NBK	6012NBK
Met Aluminum	6000NAL	6001NAL	6002NAL	6003NAL	6004NAL	6008NAL	6012NAL

### Features

Basic Lytespan is a one circuit electrical distribution system designed to support and supply all Lytespan lighting units in a flexible manner. The track can be installed individually in straight runs or in a variety of patterns.

- Basic Lytespan Track:** 6063-T5 structural aluminum extrusion.
- Track Mounting Clips:** 0.024 Spring steel, in black or white; order separately.
- Toggle Bolt & Screws:** furnished with track units.
- Conductor (2):** copper 12 ga. equivalent. "U" shape provides reliable contact with connectors.
- Insulating Liner:** 0.032" wall, high temperature thermoplastic.
- Polarity Bead:** identifies the neutral conductor.
- Live End:** molded thermoplastic. Contains contacts for power supply leads.
- Dead End Cover:** molded thermoplastic.
- Mini Coupler:** connects track units mechanically and electrically.

### Mounting

The track may be surface or stem mounted (see pages 2, 3, and 4) or installed in a recessed housing (see Specification sheet 7515). The track is not intended to be cable mounted. All lengths can be field cut.

### Finish

All painted finishes are baked enamel.

### Electrical

Capacity is 20 amps. at 120 volts per branch circuit (2400 watts incandescent load). The track units are polarized and continuously grounded throughout. Electrical conductors are concealed in a insulating liner. Intended for wiring to branch circuit building wire with ground. All wiring must be in accordance with National and Local Codes.

### Mechanical

Track units plug together and lock securely to prevent accidental separation. Lytespan lighting units can be attached at any point along the track.

### Labels

cUL; I.B.E.W

### 6000 Surface Mounting kit

#### Basic 1 Circuit Track

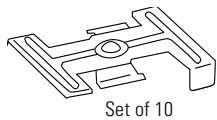
##### Track Mounting and Power Feed Systems

###### Track Mounting Clips

Recommended: 2 clips per 2' & 4' track, 3 clips per 8' and 12' track units, order separately. Attaches to track at any point. Clip is nylon coated. Spaces track 1/16" from ceiling.

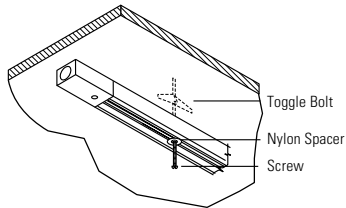
*Not recommended for wall mounting.*

**56451WH** Matte White  
**56451BK** Matte Black



###### Direct Mounting

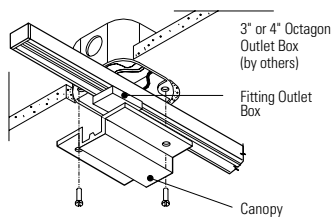
Toggle bolts and nylon insulators are furnished with Track, two per 2' and 4' track, three per 8' and 12' track. Mount through existing holes in track. Top of track sits flush to mounting surface. *Recommended for wall and ceiling mounting.*



###### Saddle Canopy Kit

Mounts anywhere along track for power feed from a 4" or 3" octagon outlet box. Use Track Mounting Clips or direct mount track. Especially useful with Plain Track. Max load 20 amps @ 120V, 60Hz.

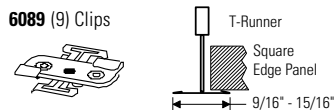
**6063WH** Matte White



###### Grid Ceiling Mounting Clips

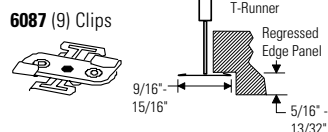
Square Edge Panels and 9/16"-15/16" T-Bars Clip is supplied assembled. Mounts onto T-Bars by rotating clips. Use two per 2' and 4' track, three per 8', and four per 12' track.

**6089** (9) Clips



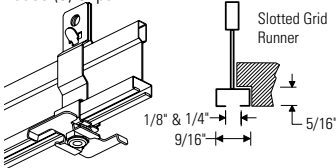
Regressed Edge Panels and 9/16" - 15/16" T-Bar Clip is supplied assembled. Mounts easily onto T-Bars by rotating clips. Use two per 2' and 4' track, three per 8', and four per 12' track.

**6087** (9) Clips



Slotted Grid Ceilings such as Donn Fineline and Chicago Metallic Ultraline 3500 and 3600. Use two per 2' and 4' track, three per 8', and four per 12' track.

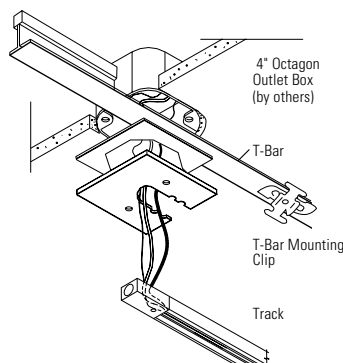
**6088** (9) Clips



###### Grid Ceiling Canopy Kit

Mounts to a 4" or 3" octagonal outlet box. Use two per 2' or 4' track, three per 8' and 12' track. When making a run of track do not exceed 4' between stems. Includes a special outlet box to fit onto runners. Power can be fed to Feed Track, Live End, "L", "T", "X", and In-Line connectors. Mounts along runner or at the intersection of runners.

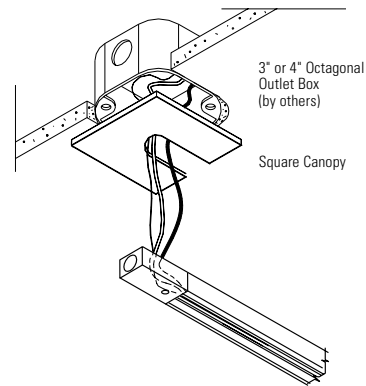
**6096WH** Matte White  
**6096BK** Matte Black



###### End Feed Canopy Kit

Mounts directly to Live End, 'L', 'T', 'X', In-Line and Variable Angle Connectors. Mounts to a 4" or 3" octagonal outlet box. For track installed with mounting clips or direct mounted. Canopy is 3/32" thick and 4-1/2" square.

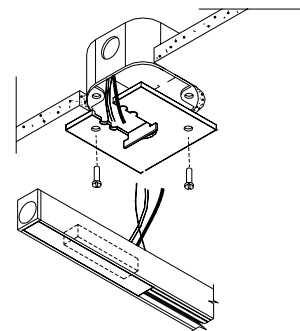
**6060WH** Matte White  
**6060BK** Matte Black  
**6060NAL** Aluminum



###### Floating Canopy Kit

Mounts to a 4" or 3" octagonal outlet box. Canopy is positioned anywhere along track, up to 4' from edge of track extrusion. Power can be fed to Live End, 'L', 'T', 'X', In-Line and Variable Angle Connectors. Mount track using track mounting clips. Canopy is 3/32" thick and 4-1/2" square.

**6061WH** Matte White  
**6061BK** Matte Black  
**6061NAL** Aluminum



## 6000 Surface Mounting kit

### Basic 1 Circuit Track

#### Track Mounting and Power Feed Systems

##### Stem Mounting Kits

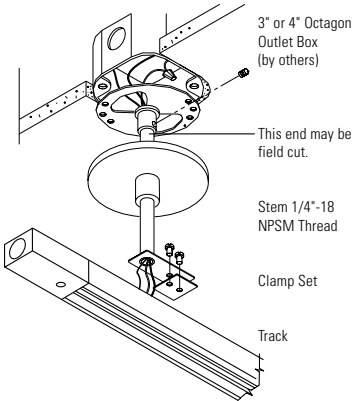
Mounts to a 4" or 3" octagon outlet box. Use two per 2' and 4' track, three per 8' and 12' track. When making a run of track do not exceed 4' between stems. Use additional stems for additional support. Power is fed to the track with the stem closest to the track feed-in point. For power feed to Feed Track and Live End, "L", "T", "X", In-line, and Variable Angle Connectors. Stem can be field cut.

*Not recommended for wall mounting.*

Stem mounts to track not feed connector. 18" Stem 48" Stem

Actual length from ceiling to top of track: 17 3/8" 47 3/8"

Matte White 7584 7586  
Matte Black 7683 7681



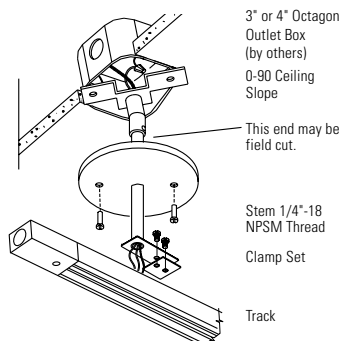
##### Swivel Stem Mounting Kits

Adjusts from 0 to 90. Mounts to a 4" or 3" octagon outlet box. Use two per 2' and 4' track, three per 8' and 12' track. When making a run of track do not exceed 4' between stems. Use additional stems for additional support. Power is fed to the track with the stem closest to the track feed-in point. For power feed to Feed Track and Live End, "L", "T", "X", In-line, and Variable Angle Connectors. Can be field cut. 48" stem.

*Not recommended for wall mounting.*

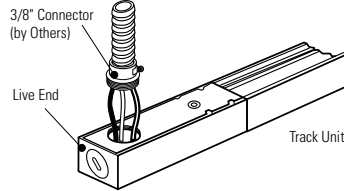
Stem mounts to track not feed connector.

7480 Matte White  
7481 Matte Black



##### Direct Feed into Connectors

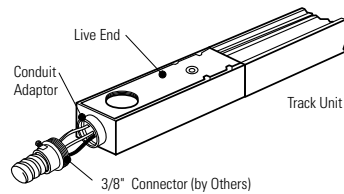
The Live End, "L", "T", "X", In-line, and Variable Angle Connectors contain a nut with a 1/2-14 thread to accept a 3/8" or 1/2" (trade size) electrical connector, 3/8" connector recommended. Does not require a separate power feed kit.



##### Conduit Adaptor

For feeding power to Live End from secure cable terminating in a 3/8" (trade size) electrical connector. Conduit must be self supporting. For use with 6048 and 6046.

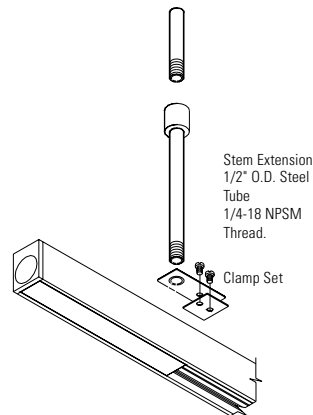
7596 Zinc Plate



##### Stem Extension Kit

Mounts to any stem kit to extend its length by 48". Cannot be field cut.

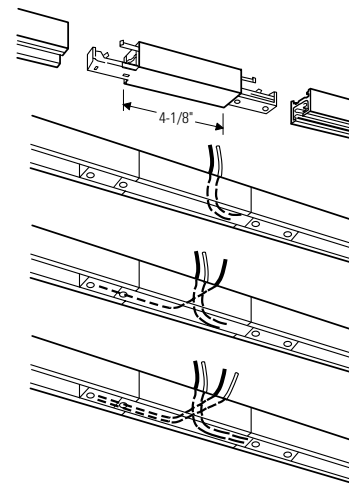
7582 Matte White  
7680 Matte Black



##### In-Line Connector

Permits power feed between track units in a straight run of track. The In-Line Connector is polarized and pre-wired. KO permits direct feed with electrical connector.

6054NWH Matte White  
6054NBK Matte Black  
6054NAL Aluminum

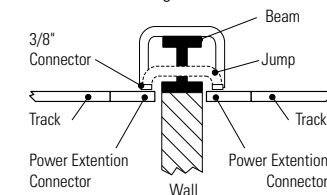


##### Power Extension Connector

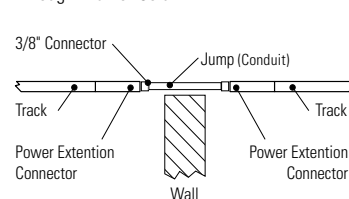
Replaces Dead End Cover at end of track to permit power continuity around structural obstacles to another track section. Accepts same power feed-in kits as Live End.

6046NWH Matte White  
6046NBK Matte Black  
6046NAL Aluminum

##### Over Beam or Through Beam



##### Through Wall or Column



### 6000 Surface Mounting kit

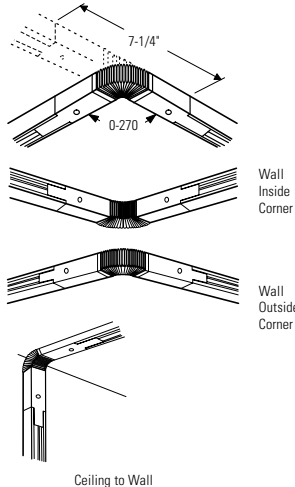
#### Basic 1 Circuit Track

#### Track Mounting, Power Feed Systems and Mounting Patterns

##### Variable Angle Connector

The Variable Angle Connector is pre-wired and polarized. It contains a die-cast zinc nut which accepts a standard 3/8" threaded conduit fitting. Flexes to any angle between 0-90.

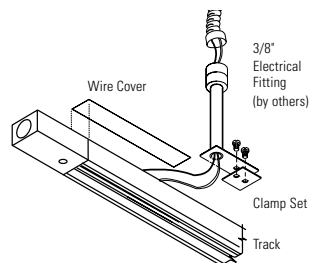
**6053WH** Matte White  
**6053BK** Matte Black  
**6053NAL** Aluminum



##### Floating Invisible Feed

Can be mounted anywhere along the track at a maximum distance of 4' from edge of track extrusion. Accepts conduit or cable with 3/8" or 1/2" electrical connector (by others). Can be used with Live End, "L", "T", "X", and In-Line and Variable Angle connectors. Use Track Mounting Clips to mount the track.

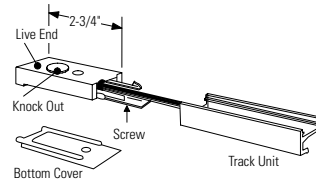
**26082** Zinc Plated



##### Live End

Energizes Track from the beginning of a run. KO permits direct feed with electrical connector. It is included with Individual Track Units. Use with plain track units.

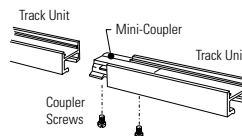
**6048NWH** Matte White  
**6048NBK** Matte Black  
**6048NAL** Aluminum



##### Mini-Coupler

Used to connect two pieces of track together mechanically and electrically. Power cannot be fed to the Mini-Coupler. It is included with Joiner Track Units.

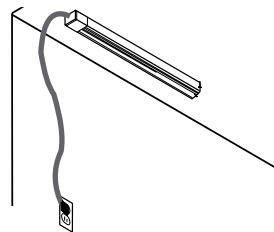
**6049NWH** Matte White  
**6049NBK** Matte Black  
**6049NAL** Aluminum



##### Cord and Plug

Energizes track from a polarized 120V receptacle. Especially useful with plain track. Supplied with a 15' two conductor 18 ga. cord and In-Line switch. The switch is supplied unattached. The track is not to exceed 1200 watts. The switch is rated for 6 amps, 720 watt with cord and plug attached.

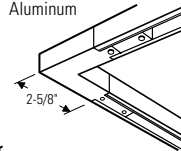
**6062WH** Matte White  
**6062BK** Matte Black



##### "L" Connector

The "L" connector is polarized and pre-wired. It may be rotated for right angle or left angle turn. KO permits direct feed with electrical connector.

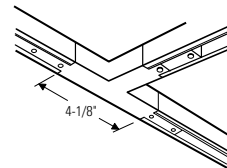
**6050NWH** Matte White  
**6050NBK** Matte Black  
**6050NAL** Aluminum



##### "T" Connector

The "T" connector is not pre-wired or polarized. Used to make "T" pattern with track. 12 ga. copper jumper wires supplied to make all necessary connections. KO permits direct feed with electrical connector.

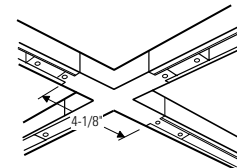
**6051NWH** Matte White  
**6051NBK** Matte Black  
**6051NAL** Aluminum



##### "X" Connector

The "X" connector is not pre-wired or polarized. Used to make "X" pattern with track. 12 ga. copper jumper wires supplied to make all necessary connections. KO permits direct feed with electrical connector.

**6052NWH** Matte White  
**6052NBK** Matte Black  
**6052NAL** Aluminum



# LT-2

## RECESSED HOUSING

**LIGHTOLIER**

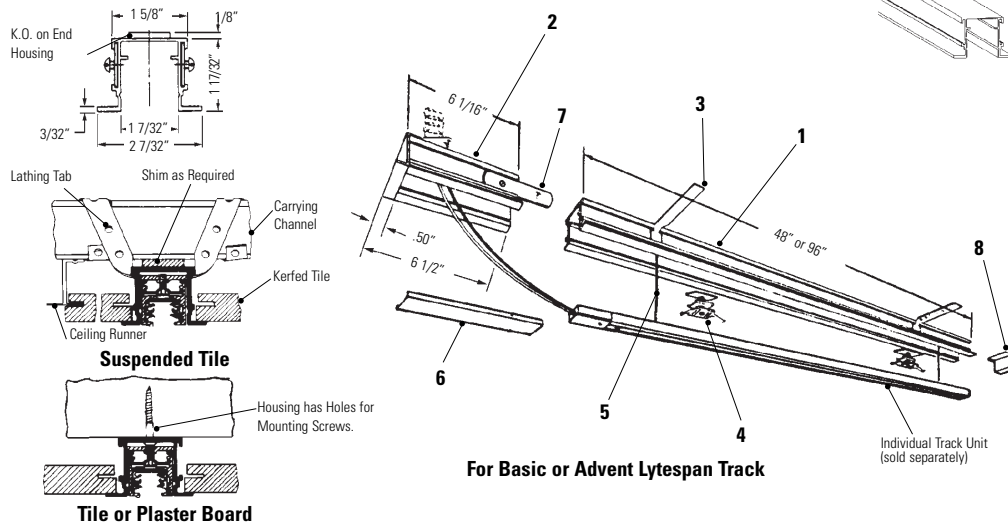
by **Signify**

### Track Lighting

Lytespan

7515 Recessed housing

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

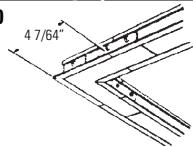


#### Patterns with Recessed Track

"L", "T", and "X" Housing/Splice Boxes are used to form patterns with recessed track. 7/8" dia. K.O.'s are provided on top for attaching circuit wiring for power feed. Auxiliary Electrical Connectors are required with "L", "T" and "X" Housing/Splice Boxes for power feed or power continuity through these Housing/Splice Boxes. Extra End Caps are provided with Housing/Splice Boxes.

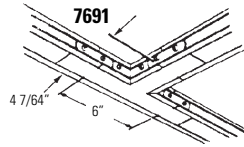
#### "L" Housing/Splice Box

7690



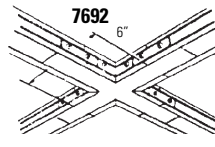
#### "T" Housing/Splice Box

7691



#### "X" Housing/Splice Box

7692



#### Auxiliary Electrical Connector Kits

6464WH (Basic)

6467WH (Advent)

Set of 2 for "L"

Housing/Splice Box

6462WH (Basic)

6465WH (Advent)

Set of 4 for "T" or

"X" Housing/Splice Box

NOTE: "L", "T" and "X" Connectors (See Specification Sheet 6000) are not used with recessed track.

#### Multiple Power Feeds

Catalog No.	Description	End Housing/Splice Box	Housing
7515	4' Housing		
7516	8' Housing		
7517	End Housing/Splice Box		

# LT-2

## RECESSED HOUSING

### 7515 Lytespan

#### Recessed housing

#### Features

1. **Housing:** extruded aluminum .062" wall, matte white. Will resist alkali in concrete for 48 hours while setting.
2. **End Housing/Splice Box:** extruded aluminum, .062" wall, matte white (2) 7/8" dia. K.O.'s provided for multiple feeds.
3. **Lathing Tab:** 20 ga. plated steel. Slides to desired position.
4. **Mounting Clip:** secures track to housing (includes allen wrench).
5. **Hanger Chain**
6. **Splice Box Cover:** 26 ga. steel, matte white. Snaps in without tools.
7. **Spline**
8. **End Cap:** (2) Supplied with End Housing/Splice Box.

#### Mechanical

Housings and Splice Boxes are locked securely together with metal Splines and Screw Fasteners.

#### Mounting

Lathing Tabs and holes in Recessed Housings are provided for mounting in a variety of ceilings. Recessed Housings may be installed in concrete.

#### Finish

Baked Enamel Paint, Matte White.

#### Labels

UL; I.B.E.W.

*WE RESERVE THE RIGHT TO CHANGE DETAILS OF DESIGN, MATERIALS AND FINISH, IN ANY WAY THAT WILL NOT ALTER INSTALLED APPEARANCE OR REDUCE FUNCTION AND PERFORMANCE.*

**LIGHTOLIER a GENLYTE company**  
631 Airport Road, Fall River, MA 02720  
(508) 679-8131 • FAX (508) 674-4710

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Markham, ON, Canada L6C 2S3  
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[www.lightolier.com](http://www.lightolier.com)



# LT-2

## TRACK HEAD

**LIGHTOLIER**  
by **Signify**

### Track Lighting

#### Track Head

TH 1100lm & 3000lm



Lightolier LED Track Head is the budget-friendly track lighting. This family has a simple and classic look and is available in 1100lm and 3000lm with different beam options.

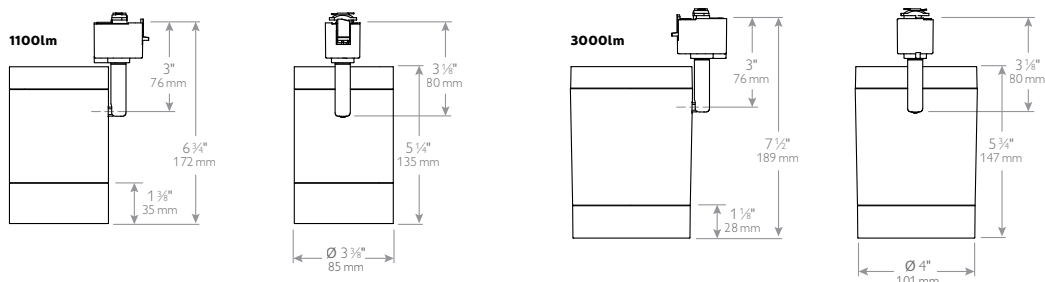
Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

### Fixture

example: TH10930NF1W

Series	Adapter	Lumens	CRI	CCT	Beam	Voltage	Finish
<b>TH</b>	<b>-</b>	<b>30</b>	<b>9</b>	<b>30</b>	<b>NF</b>	<b>1</b>	<b>W</b>
TH Track head	- Lightolier J Juno	10 1100lm 30 3000lm	9 90CRI 9 90CRI	30 3000K 30 3000K	S Spot (15°) NF Narrow Flood (30°) NF Narrow Flood (22°) F Flood (36°)	1 120V	W White (matte) B Black (matte)

### Dimensions



### Features

- Track attachment fitting:** Molded polycarbonate. Rotates into place with the use of a push tab.
- Push tab:** Molded polycarbonate. Locks and detaches unit.
- Driver and optic housing:**  
1100lm: Plastic  
3000lm: Cast aluminum (plastic front cap)  
Horizontally rotates 360° and vertically rotates 90°.
- Movable contact:** Solid brass. Extends for connection to 2nd circuit in Advent track.
- Integrated heat sink:** Passive cooling, integrated into optic and driver housing.

- Finish:** Matte white and matte black.
- Lifetime:** TH10: B50L70 = 40,000 hrs  
TH30: B50L70 = 60,000 hrs
- Install:** Suitable for ceiling mounted track only. Compatible with LyteSpan track systems (Basic, Radius, Advent and Monopoint). Not compatible with extension wands.
- Light source:** LED

### Electrical

**Electronic PSU** Input Voltage 120V 50/60Hz

Specifications	Beam Angles	Lumens	Power	Efficacy	CBCP
TH10930S1W	15° Spot	1154lm	13.6W	84.9 lm/W	12,278 cd
TH10930NF1W	30° Narrow Flood	1271lm	16.3W	78 lm/W	3,466 cd
TH30930NF1W	22° Narrow Flood	3192lm	35.8W	89.2 lm/W	11,988 cd
TH30930F1W	36° Flood	3442lm	38.4W	89.6 lm/W	8,107 cd

### Dimming

	TH10 SP	TH30 NF	TH30
DVELV-300 (ELV)	6%	6%	9%
DV-603P (TRIAC)	1%	8%	18%
AY-600P (TRIAC)	—	12%	10%
MALV-600 (ELV)	1%	3%	—

### Labels

ETL listed.  
ENERGY STAR® certified.  
5 year warranty.



# LT-2

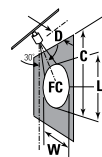
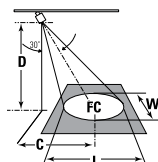
## TRACK HEAD

### TH Track Head

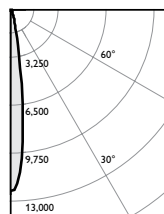
1100lm & 3000lm

#### Aiming angles

L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, for 2700K multiply FC by 0.91.



L Beam length  
D Distance  
W Beam Width  
A Aiming Angle  
FC Footcandles  
C Distance to center beam  
CBCP Center Beam Candlepower.



#### Fixture: TH10930S1W

CCT<sup>1</sup>: 3000K  
Output lumens: 1154lm  
Input watts<sup>2</sup>: 13.6W  
Efficacy: 84.9lm/w  
CRI: 90min  
CBCP: 12,278cd  
Beam Angle: 15°

Report no<sup>3</sup>:  
TH10930S1W

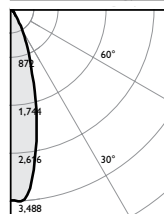
#### Spot

##### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	222	2.1	1.8
8	4.6	125	2.8	2.4
10	5.8	80	3.5	3.0
12	6.9	55	4.2	3.6

##### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	384	2.2	1.1
3	5.2	171	3.3	1.6
4	6.9	96	4.4	2.1
5	8.7	61	5.6	2.6



#### Fixture: TH10930NF1W

CCT<sup>1</sup>: 3000K  
Output lumens: 1271lm  
Input watts<sup>2</sup>: 16.3W  
Efficacy: 78.0lm/w  
CRI: 90min  
CBCP: 3,466cd  
Beam Angle: 30°

Report no<sup>3</sup>:  
TH10930NF1W

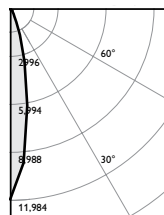
#### Narrow Flood

##### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	63	4.4	3.7
8	4.6	35	5.9	5.0
10	5.8	23	7.3	6.2
12	6.9	16	8.8	7.4

##### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	108	5.5	2.1
3	5.2	48	8.2	3.2
4	6.9	27	10.9	4.3
5	8.7	17	13.7	5.4



#### Fixture: TH30930NF1W

CCT<sup>1</sup>: 3000K  
Output lumens: 3192lm  
Input watts<sup>2</sup>: 35.8W  
Efficacy: 89.2lm/w  
CRI: 90min  
CBCP: 11,988cd  
Beam Angle: 22°

Report no<sup>3</sup>:  
TH30930NF1W

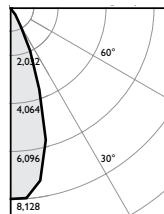
#### Narrow Flood

##### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	216	3.1	2.7
8	4.6	122	4.2	3.6
10	5.8	78	5.2	4.5
12	6.9	54	6.3	5.4

##### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	375	3.5	1.6
3	5.2	166	5.3	2.3
4	6.9	94	7.0	3.1
5	8.7	60	8.8	3.9



#### Fixture: TH30930F1W

CCT<sup>1</sup>: 3000K  
Output lumens: 3442lm  
Input watts<sup>2</sup>: 38.4W  
Efficacy: 89.6lm/w  
CRI: 90min  
CBCP: 8,107cd  
Beam Angle: 36°

Report no<sup>3</sup>:  
TH30930F1W

#### Flood

##### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	146	5.4	4.5
8	4.6	82	7.2	6.0
10	5.8	53	9.0	7.5
12	6.9	37	10.8	9.0

##### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	253	7.6	2.6
3	5.2	113	11.4	3.9
4	6.9	63	15.2	5.2
5	8.7	41	19.0	6.5

1. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage: controlled to within 5%.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



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TrackHead-Tracklight-TH 11/18 page 2 of 2

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Markham, ON, Canada L6C 2S3  
Telephone 800-668-9008

www.lighttolier.com

# LT-4

## INTERIOR 2' x 2' T-BAR FIXTURE (KITCHEN)

### LRTA-C29

Premium-Grade Recessed Wet Location Luminaire

LED

ARCHITECTURAL LIGHTING



VISIONEERING

by VISCOR

Project:	Catalogue #:	Type:
Notes:		

### Product Description

Premium-grade enclosed and gasketed luminaire. This IC-rated luminaire's welded steel housing, shallow design and dust and moisture resistance, make it ideal for use with indoor and outdoor (canopy) applications that require a wet location recessed lay-in T-Bar/drywall luminaire with a door frame.

### Features

- Ideal for shallow or obstructed plenum applications
- Frosted prismatic acrylic diffuser
- Standard low voltage dimming (0-10v)
- 80+ CRI
- Available in 1x4, 2x2, 2x4

### Applications

- Outdoor, under covered canopy
- Wet and Dusty Environments

### Featured Options

- NSF
- Step dimming
- Various lenses
- Fasteners Tamper Proof

### Optical System

One piece perimeter door frame with inverted frosted, prismatic pattern #12, sealed acrylic lens. Other lenses available (see options).

### Mounting

Holes provided for chain-mounting support to building structure. Lay-in type luminaire for exposed grid type acoustical ceiling structure and swing style mounting brackets for drywall ceiling installation.

### Construction

Die-formed and spot welded, steel housing assembly and 20 gauge steel door frame. Triple gasketed with sealed lens, gasketed door frame assembly and gasketed housing flange.

### Finish

White, polyester powder painted housing.

### Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours.

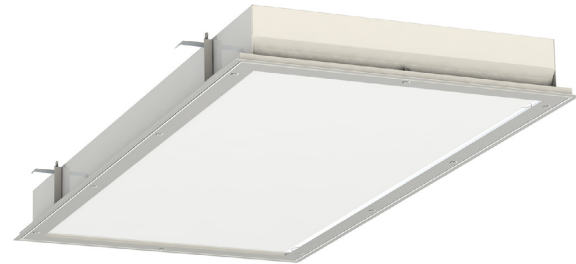
### Warranty

5 year limited warranty. For complete warranty terms visit:  
[http://viscor.com/assets/Viscor\\_LED\\_Warranty.pdf](http://viscor.com/assets/Viscor_LED_Warranty.pdf)

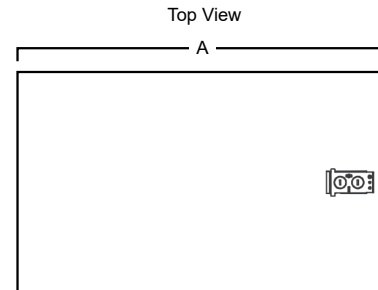
### Approvals



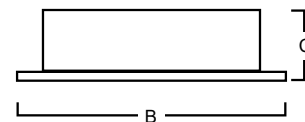
Approved to CSA/UL standards. UL listed for insulated ceilings. Tested in accordance to IESNA LM-79. UL listed for wet locations.



### Dimensions



End View



	A	B	C
1x4	47 3/4"	11 3/4"	3 15/16"
2x2	23 3/4"	23 3/4"	3 15/16"
2x4	47 3/4"	23 3/4"	3 15/16"

Consult installation guide for exact dimensions.



## INTERIOR 2' x 2' T-BAR FIXTURE (KITCHEN)

### LRTA-C29

Premium-Grade Recessed Wet Location Luminaire

LED

ARCHITECTURAL LIGHTING



**VISIONEERING**

by VISCOR

Project:	Catalogue #:	Type:
Notes:		

### Order Key

EXAMPLE: LRTA-C29-2x2-LED840K035LUNV

LRT	A	-	C29	2x2	-	LED	89	35K	040L	UNV	-	
-----	---	---	-----	-----	---	-----	----	-----	------	-----	---	--

**Type**

**Housing Construction Type**

**Size (Width x Length)**

1x4  
2x2  
2x4

**CRI**

8 - (80-89)

**CCT**

30K - 3000K  
35K - 3500K  
40K - 4000K  
50K - 5000K

**Nominal Lumens**

1x4  
035L - 3500  
046L - 4600

2x2  
026L - 2600  
035L - 3500  
040L - 4000  
046L - 4600

2x4  
040L - 4000  
049L - 4900  
063L - 6300  
077L - 7700  
090L - 9000

**Voltage**

UNV - 120-277V  
347 - 347V

**Options**

**Driver Options**

B02 Dimming Addressable Digital (DALI)  
B15 Bi-Level Step Dimming (50/100)  
(Not available for 347V)  
B39 Emergency Lighting Battery Pack - LED

**Housing Construction Options**

C03 Fasteners Tamper Proof

**Packaging Options**

K0 Bulk Pack/Pallet Packed and/or Wrapped

**Lens Options**

Frosted Pattern 12 Prismatic Acrylic is standard (0.095" thick)

P04 Smooth Opal Acrylic  
P13 Clear Prismatic Acrylic P12 (0.125" Thick)  
P82 White Translucent Acrylic\*  
P97 Frosted Pattern 19 Acrylic (0.156" Thick)

**Approval and Rating Options**

X5 NSF - National Sanitation Foundation  
(Comes with NSF compliant gloss white finish)

Size	Delivered Lumens	Watts
1x4	035L	32
	046L	43
2x2	026L	25
	035L	34
	040L	38
	046L	48
2x4	040L	35
	049L	41
	063L	53
	077L	67
	090L	79

\* For X5 - must be used as an interior lens only and in conjunction with P13 or standard lens.

**Lens Note:** For X5 option, smooth side must face down.

Other options may be available consult factory. Specifications and data subject to change without notice.



# LT-21

## EMERGENCY LIGHT WITH BATTERY



### ESL Series

6, 12 and 24V

#### 10-year life expectancy, maintenance-free emergency lighting units.

The **ESL Series** battery units combine long life expectancy, high-performance design and a reasonable initial cost outlay. Ideally suited for a range of commercial applications, the long-life lead acid battery is specifically recommended for environments where the unit will be exposed to large variances in ambient temperature.

#### FEATURES

- Rugged steel cabinet with corrosion-resistant undercoating
- Removable front panel on cabinet provides easy access and allows the unit to be mounted at ceiling height
- Solid-state pulse-type charger – current-limited, temperature-compensated, short-circuit proof and reverse-polarity protected.
- Unit comes standard with electronic lockout and brownout circuits
- Sealed dust-proof transfer relay, test switch and LED indicator lights
- Long-life, maintenance-free lead acid battery
- NEXUS® compatible (for more information on NEXUS®, please consult your sales representative)
- CSA C22.2 No. 141 certified
- Standard 120/347 VAC input with line cord kit
- Advanced diagnostics capabilities [specific load requirements]

See warranty details at: [www.tnb.ca/en/brands/emergi-lite](http://www.tnb.ca/en/brands/emergi-lite)

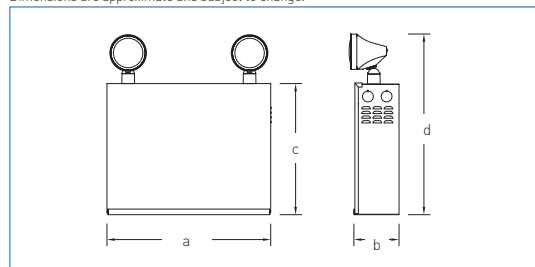


nexus®

CABINET	DIMENSIONS			
	A	B	C	D
A	13 1/4" (33.7 cm)	3 5/8" (9.2 cm)	10 1/2" (26.7 cm)	14 1/4" (36.2 cm)
B	16 1/8" (40.9 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)
C	23 1/8" (58.7 cm)	5 1/2" (13.9 cm)	10 1/4" (26.0 cm)	13 7/8" (35.2 cm)

#### DIMENSIONS

Dimensions are approximate and subject to change.



#### TYPICAL SPECIFICATIONS

Supply and install a complete emergency lighting system as described herein and shown on the drawings.

The **Emergi-Lite® Smart Diagnostic** micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120V or 347V, 60 Hz and be CSA listed. The unit shall have an output of: \_\_\_\_\_V and \_\_\_\_\_W.

The charger shall be fully computer tested and its charge voltage factory set to  $\pm 1\%$  tolerance. Chargers with field-adjusted potentiometers are not acceptable. A pulse-type charger shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, and when the battery is at full capacity, the charger will shut off.

Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected.

The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge. The unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be capable of full recharge in compliance with CSA specifications. The unit shall be furnished with a sealed dust tight relay, a test switch and diagnostic LED indicator lights to continuously monitor the status of the unit: Battery Failure, Battery Disconnected, Charger Failure, Lamp Failure, Service Alarm, AC "ON", Charger High Rate. The emergency lighting heads shall require no tools for orientation.

**12ESL72/2LG**

The unit shall be **Emergi-Lite®** model: \_\_\_\_\_

#### WIRE GUARDS

460.0078-E	Wall Mount	"A" Cabinet
460.0081-E	Wall Mount	"B" Cabinet
460.0034-E	Wall Mount	"C" Cabinet

#### REPLACEMENT LAMPS

ORDERING CODE	LAMP TYPE	VOLTAGE/WATTAGE
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

# LT-21

## EMERGENCY LIGHT WITH BATTERY

n = new options

### ESL Series

6, 12 and 24V



#### POWER CONSUMPTION AND UNIT RATING

MODEL	AC SPECS	WATTAGE CAPACITY				
		30 MIN	1H00	1H30	2H00	4H00
06ESL36	120/347VAC	0.10/0.04 A	36	21	15	12
06ESL72		0.22/0.08 A	72	42	30	24
06ESL108		0.22/0.08 A	108	63	45	36
06ESL180		0.22/0.08 A	180	105	75	60
12ESL36		0.09/0.03 A	36	21	15	12
12ESL72		0.15/0.06 A	72	42	30	24
12ESL100		0.34/0.12 A	100	58	42	33
12ESL144		0.40/0.14 A	144	84	60	48
12ESL216		0.41/0.14 A	216	117	83	67
12ESL250		0.41/0.14 A	250	144	100	38
12ESL360		0.41/0.14 A	360	200	144	108
24ESL144		0.43/0.15 A	144	84	60	48
24ESL200		0.55 / 0.20 A	200	117	83	67
24ESL288		0.67 / 0.23 A	288	168	120	96
24ESL350		0.67 / 0.23 A	350	200	144	120
24ESL432		0.67 / 0.23 A	432	250	180	144
24ESL550		0.88 / 0.33 A	550	320	230	180
24ESL720		0.88 / 0.33 A	720	420	300	240

Note: Low wattage LED lamps provide extended time of emergency lighting without additional power.

#### ORDERING INFORMATION

SERIES	CAPACITY & CABINET SIZE <sup>1</sup>	COLOUR	VOLTAGE	OPTIONS	# OF HEADS	HEADS STYLE/WATTAGE
06ESL= 6V	36= 36W (A) 72= 72W (A) 108= 108W (A) 180= 180W (B)	Blank= factory white BK= black	Blank= 120/347VAC input -2= 277VAC input	U= auto-diagnostics <sup>1</sup> UN= auto-diagnostics non-audible <sup>1</sup> NEX= NEXUS® system interface <sup>1</sup> NEXRF= wireless NEXUS® system interface <sup>1</sup>  A= ammeter V= voltmeter CPS3= constant power supply 3 Amps, 24V only <sup>4</sup> <b>n</b> CT= cab-tire D= time delay LW= twist-lock plug [120V] <sup>2</sup> P= light activated test switch RFI= radio frequency interference filter, 120VAC <b>n</b> RF3= radio frequency interference filter, 347VAC <b>n</b> T= lamp disconnect TB= DC terminal block TBAC= AC terminal block TBACDC= AC/DC terminal block ZCB= zone control panel <sup>3</sup> <b>n</b>	/0= no heads /1= one head /2= two heads /3= three heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W LL= MR16 LED, 24V-4W LM= MR16 LED, 24V-6W
12ESL= 12V	36= 36W (A) 72= 72W (A) 100= 100W (A) 144= 144W (A) 216= 216W (B) 250= 250W (B) 360= 360W (B)					
24ESL= 24V	144= 144W (A) 200= 200W (B) 288= 288W (B) 350= 350W (C) 432= 432W (C) 550= 550W (C) 720= 720W (C)					

<sup>1</sup> Cabinet size is not part of nomenclature

<sup>1</sup> Not available with 6V-108W.  
Minimum lamp load required: 20% of unit capacity.  
Not all options available with the NEXUS® system. Please consult your sales representative.  
<sup>2</sup> 120V is standard  
<sup>3</sup> See zone control box in options section. B & C cabinet only.  
<sup>4</sup> "C" Cabinet only. 24V, 144W-720W.

EXAMPLE: 06ESL108U/2LL

# LT-22

## EMERGENCY LIGHTS C/W 2 HEADS

### EF9M Series

LED



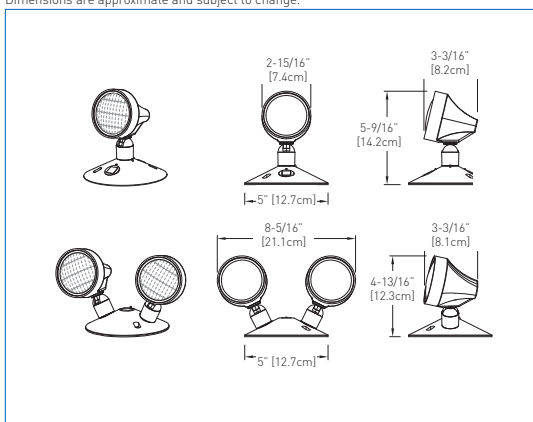
#### FEATURES

- Fire-retardant thermoplastic
  - 300° rotation
  - CSA certified to C22.2 No. 141
  - 6, 12 and 24V with various wattages
- See warranty details at: [www.tnb.ca/en/brands/emergi-lite](http://www.tnb.ca/en/brands/emergi-lite)



#### DIMENSIONS

Dimensions are approximate and subject to change.



#### TYPICAL SPECIFICATIONS

Lamp head and stem shall be injection molded, impact resistant, flame retardant thermoplastic and shall require no tool for aiming or adjustment. The lens shall be inverse concave design and fully adjustable for aisle or area distribution during installation without the need to energize the lamp. Visual identification of distribution shall be provided through position of adjustment pins.

Fixture shall be supplied with a canopy for installation on any four inch octagon box. Housing shall be designed to allow for lamp replacement if required.

The remote unit shall be the **Emergi-Lite®** model: **EF9DMLG**

#### WIRE GUARDS

460.0029-E	Wall ceiling Mount
------------	--------------------

#### REPLACEMENT LAMPS

MODEL	LAMP TYPE	VOLTAGE/WATTAGE
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0098-E	MR16 LED	24V-4W
580.0100-E	MR16 LED	24V-6W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

#### ORDERING INFORMATION

SERIES	NUMBER OF LAMPS	LAMP TYPE	COLOUR	VOLTAGE/WATTAGE
EF9= mini, PAR 18	Blank= single head D= double head T= triple head	M= MR16 LED	Blank= factory white B= black	-LA= MR16 LED, 6V-4W -LB= MR16 LED, 6V-5W -LG= MR16 LED, 12V-4W -LI= MR16 LED, 12V-5W -LJ= MR16 LED, 12V-6W -LL= MR16 LED, 24V-4W -LM= MR16 LED, 24V-6W

EXAMPLE: EF9M-LM



### ESC Series

Steel Combination Unit

#### FEATURES

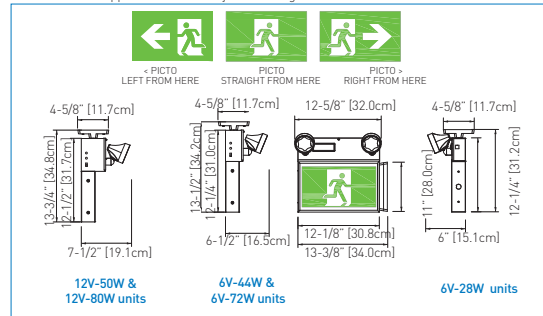
- Universal mounting: end, wall or ceiling
- Meets or exceeds CSA 22.2 No.141-15 standard for unit equipment and pictogram Exit Signs
- Legend illuminated by long-life white LED's
- Sealed, maintenance-free, 6V or 12V Lead-Calcium battery
- Remote load capacity: 80W up to 560° of egress illumination when using LED remote heads
- Advanced diagnostics capabilities [specific load requirements]

See warranty details at: [www.tnb.ca/en/brands/emergi-lite](http://www.tnb.ca/en/brands/emergi-lite)



#### DIMENSIONS

Dimensions are approximate and subject to change.



#### TYPICAL SPECIFICATION

Supply and install **Emergi-Lite® ESC Series** combination emergency light battery unit and pictogram Exit Sign. The unit shall be made of solid steel sheet metal and be suitable for universal mounting: wall, end, or ceiling. The legend housing shall have a maximum depth of 2-1/8". The legend face plate(s) shall be constructed of robust clear polycarbonate panel(s) with an opaque border coloured factory-white. The light source shall be white light-emitting diodes (LED) and shall provide even illumination in normal and emergency operation. The power pack shall include one circuit board with test switch and pilot light for battery charger and legend LED driver. The unit shall include one 6V or 12V, maintenance-free, sealed Lead-Calcium battery and shall provide minimum 30 minutes of emergency lighting upon AC power failure. The electrical power available for emergency lights shall be 28W or up to 72W, for 6V and 50W or up to 80W for 12V, as specified. The emergency heads shall require no tools to adjust and aim. The equipment shall meet or exceed the requirements of CSA 22.2 No.141-10 standard.

The equipment shall be **Emergi-Lite® Model: ESC44W2LA**

#### WIRE GUARDS

460.0081-E	Wall mount
460.0060-E	Ceiling mount

#### POWER CONSUMPTION

MODEL	AC SPECS	EMERGENCY POWER AVAILABLE FOR LAMPS				
		30MIN	1H00	1H30	2H00	4H00
Pictogram Module	120/347VAC	Less than 1.5W	-	-	-	-
ESC28		0.13 / 0.05 A	28	16	12	9
ESC44			44	26	18	15
ESC72			72	42	30	24
ESC-1250		0.25 / 0.09 A	50	29	21	16
ESC-1280			80	46	32	27

#### ORDERING INFORMATION

SERIES	POWER EM. LIGHTS	HOUSING COLOUR	HEADS	HEAD STYLE AND WATTAGE	VOLTAGE	OPTIONS
ESC= pictogram steel combo exit sign	28= 6V-28W 44= 6V-44W 72= 6V-72W 1250= 12V-50W 1280= 12V-80W	B= black W= factory white	Blank= no heads 1= one head 2= two heads	Blank= no heads LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W	Blank= 120/347 VAC -2= 120/277VAC input	Blank= no options U= auto-diagnostics <sup>1</sup> UN= auto-diagnostics, non audible <sup>1</sup> NEX= NEXUS <sup>®</sup> system interface <sup>2</sup> NEXRF= wireless NEXUS <sup>®</sup> system interface <sup>2</sup> DF= double face sign D3= time delay (15 minutes) -TP= tamper-proof screws <sup>3</sup> U9= arrow up D9= arrow down U4= arrow up 45° D4= arrow down 45°

EXAMPLE: ESC28W2LA



## EXTERIOR WALL MOUNTED EMERGENCY LIGHT + BATTERY

10

EMERGI-LITE EMERGENCY LIGHTING SOLUTIONS

### Survive-All™ NXM Series

NEMA-4X



#### Features

- Fully gasketed cast aluminum back plate with clear polycarbonate cover – NEMA-4X Certified
- Comes standard with non-audible advanced diagnostic, 15 minutes time delay and lamp disconnect
- Audible warning and time delay functions can be enabled or disabled during installation
- Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or LED lamp failures
- Non-intrusive magnetic test switch
- Long-life, maintenance-free sealed lead-acid battery
- 1/2" rigid conduit entry on top and back
- Can be installed on 4" junction boxes
- Comes standard with tamper-proof screws and bit
- Cold weather option -40°C (-40°F)
- NSF Certified for food processing plants
- Standard 120/347VAC input voltage
- Meets and exceeds CSA C22.2 No. 141-15 Certified
- Advanced diagnostics capabilities (specific load requirements)
- Warranty details at: [www.tnb.ca/en/brands/emergi-lite](http://www.tnb.ca/en/brands/emergi-lite)

nexus® Nexus®Pro   NEMA-4X  

#### Typical specifications

Supply and install the **Emergi-Lite® NEMA-4X Certified Survive-All™ NXM Series** battery unit. Specifically designed for high abuse areas, wet locations, and cold weather (CW option -40°C (-40°F)), the housing shall consist of a fully gasketed Die-Cast with a cast aluminum back plate and a clear heavy-duty UV resistant polycarbonate cover. The heads shall be fully adjustable without tools and the lamps shall be high efficiency MR16 LED. The standard unit shall be equipped with tamper-proof screws and bits.

The **Emergi-Lite®** Advanced Diagnostic Micro-controller charger board shall supply the rated load for a minimum of 30 minutes to 87.5% of the rated battery voltage. The charger incorporates lockout and brownout circuits, and low voltage disconnection. It protects the unit from over-current, shortcircuit, and reverse polarity. The unit shall be rated 120/347V, 60Hz.

The unit shall have an output of V. This unit shall self-test for 1 minute every 30 days, 10 minutes every 6 months and 30 minutes every 12 months. The unit shall be furnished with a non-intrusive magnetic test switch. A "Service Required" lamp shall be located near the test switch and flash when a fault is detected. A four-LED diagnostic display shall be located inside the equipment and shall identify the source of failure (battery, charger, circuitry, or lamps).

The unit shall be CSA 22.2 No. 141-15 Certified

The equipment shall be **Emergi-Lite®** Model: [06NXMB36/2LA](#)

#### Wire guards

Ordering code	Description
460.0031-E	Wall mount

#### Replacement lamps

Ordering code	Lamp type	Voltage/wattage
580.0097-E	MR16 LED	6V-4W
580.0122-E	MR16 LED	6V-5W
580.0093-E	MR16 LED	12V-4W
580.0104-E	MR16 LED	12V-5W
580.0106-E	MR16 LED	12V-6W

#### Survive-All™ NEMA 4X & NSF certified family

		
ENC Series	EN Series	EF39 & EF39P Series

# LT-24

## EXTERIOR WALL MOUNTED EMERGENCY LIGHT + BATTERY

BATTERY UNITS – SURVIVE ALL NXM SERIES

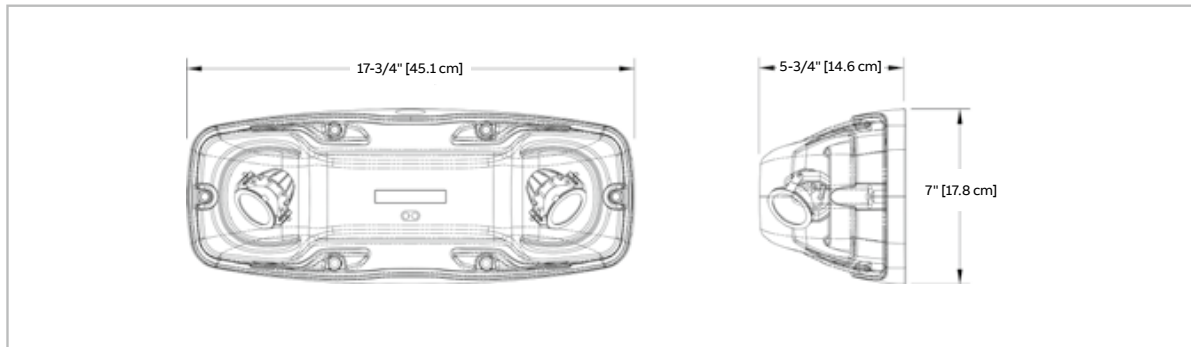
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### Survive-All™ NXM Series

NEMA-4X

#### Dimensions

Dimensions are approximate and subject to change.



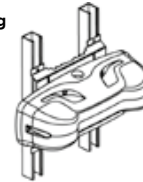
PMK kit  
(screws included)



Beam mounting



Superstrut mounting



#### Power consumption and unit rating

		Wattage capacity					
Model		AC specs	30 min	1H00	1H30	2H00	4H00
06NXM36	120/347VAC	0.15/0.06 A	36	21	15	12	6
12NXM72		0.25/0.10 A	72	42	30	24	12
12NXM108		0.25/0.10 A	108	63	45	36	18
Cold weather 36W		0.45/0.20 A	36	–	–	–	–
Cold weather 72/108W	120VAC	0.85 A	72/108	–	–	–	

Note: Capacity depends on the ambient temperature.

#### Ordering information

Series	Colour	Capacity	Voltage
06NXM= 6V, NEMA-4X 12NXM= 12V, NEMA-4X	B= black G= grey W= white	36= 6V-36W 72= 12V-72W 108= 12V-108W	2= 277VAC Blank= 120/347VAC
Options		# of heads	Lamps
690.0454-E= additional-bit for tamper-proof screws (sold separately)		/2= 2 heads	LA= MR16 LED, 6V-4W LB= MR16 LED, 6V-5W LG= MR16 LED, 12V-4W LI= MR16 LED, 12V-5W LJ= MR16 LED, 12V-6W
Blank= auto-diagnostic, non audible			
CW1= cold weather 120VAC			
CW3= cold weather 347VAC <sup>1</sup>			
NEX= NEXUS® system interface			
NEXP= NEXUS®Pro IoT			
NEXRF= wireless NEXUS® system interface			
PMK-E= universal bracket (sold separately)			

Example: 06NXMW36/2LA

<sup>1</sup>Available in 6V only

Note: Minimum lamp load required: 20% of unit capacity