

FARETTO LARGE LED

Project name: _____

Type: _____



General information

Luminaire characteristics:

Power input: 18W

Lumens: TBC

Luminaire efficacy: TBC

Source: XICATO XSM Artist Series LED Module
3000K: 95CRI, 3500K and 4000K: 85CRI.

Lumen maintenance: >70% of initial lumens at 50 000 hours (L70)
LM-80 (LED) / LM-79 tested

Configuration: 330° vertical (pan), and 270° horizontal (tilt)
pivoting axes with locking screws.

Optics:

Metalized PC reflector: 20°, 40° or 60° beam with clear acrylic
protection screen.

Mounting:

Track: Track adaptor with circuit selector for two circuit tracks.
Also, compatible with TEK or HTEK from Nordic Aluminium.

Canopy: Round die cast aluminum canopy.

Body: Aluminum housing and heatsink.

Electrical: Integral high efficiency dimmable driver, 120-277V.

Dimming: Compatible with Leading (TRIAC) and trailing edge
(ELV) for 120V only.

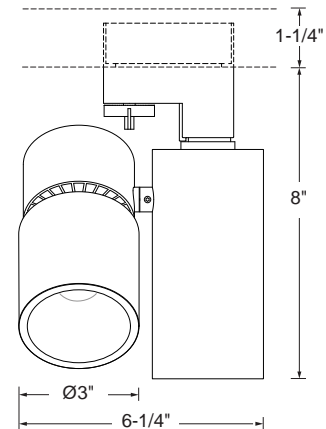
Finish: Natural or black matte anodized with black accent and black
track adaptor or painted white RAL 9003 with white track adaptor.

Weight: 3 lbs. (1.36 Kg) including track adaptor.

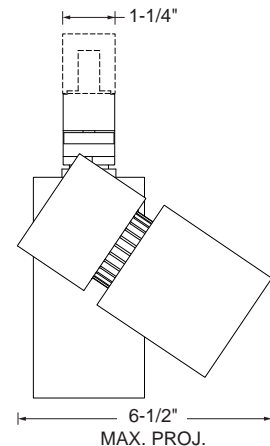
Warranty: 5 years limited warranty.

Certification: cULus listed.

Ratings: Damp location.



FRONT VIEW



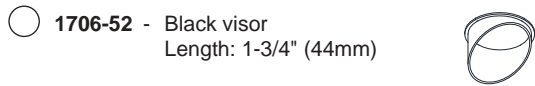
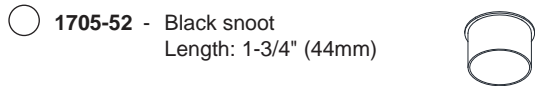
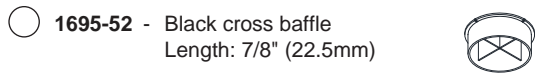
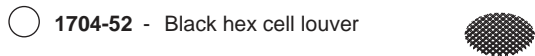
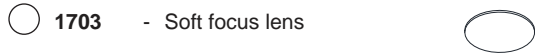
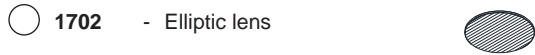
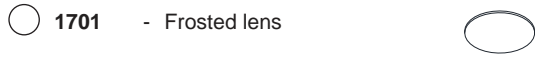
SIDE VIEW

Project name: _____

Type: _____

ACCESSORIES (TO BE ORDERED SEPARATELY)

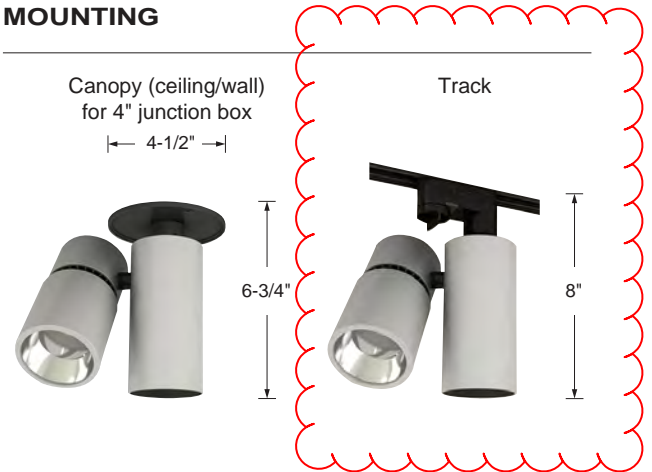
* fixture can hold a maximum of 3 accessories at a time



INSTALLATION

Sistimalux 2 circuit track 120V or 277V
Canopy for 4" junction box (UNV).

MOUNTING



ORDERING INFO

MODEL	LED	OPTIC	VOLTAGE	FINISH
<input checked="" type="radio"/> 1692 - Track	<input type="radio"/> 930 - 3000K, 95CRI	<input type="radio"/> 20 - 20°	<input checked="" type="radio"/> 120 - 120V	<input checked="" type="radio"/> 01 - White
<input type="radio"/> 1692C - Canopy	<input checked="" type="radio"/> 835 - 3500K, 85CRI	<input checked="" type="radio"/> 40 - 40°	<input type="radio"/> 277 - 277V	<input type="radio"/> 51 - Natural matte anodized
	<input type="radio"/> 840 - 4000K, 85CRI	<input type="radio"/> 60 - 60°		<input type="radio"/> 52 - Black matte anodized

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: MARCH 05, 2014

MGD - R1



SISTEMALUX



9320 Boul. St-Laurent,
suite 100, Montréal (Québec)
Canada H2N 1N7
P.: 514.523.1339 F.: 514.525.6107
www.sistimalux.com

B&H Federal/GSA | Government, Education & Corporate | Students/Educators Español | My Account | Help Center | About Us

800.606.6969 / 212.444.6615 Welcome, Login/Register

B&H   **\$59⁹⁵** **Ends In** 2 days **08:40:44** **\$0.00**

Wish List | Track Order

Search by Keyword or Item # **GO** **Shop** **Used Dept** **Explora**

Photography Computers Pro Video Lighting & Studio Pro Audio Mobile TVs & Entertainment Film, Tapes & Media Camcorders Security & Surveillance Binoculars & Scopes Underwater Darkroom A/V Presentation

Passover Closing From April 2 at 7:00pm EDT through April 11, 2015 **Orders placed at this time will be processed after we reopen** [See Schedule Details](#) ▼

[Home](#) [Shop by Brand](#) [Arri](#) [Location & Studio Fresnel](#) [Arri Fresnel 150](#)

Arri 150 Watt Fresnel Tungsten Light (220V) B&H # ARF150X • MFR # 530102

ARRI



Shown with Optional Equipment



SPECIAL ORDER

Ship Time: 3-7 business days ⓘ

Free Standard Shipping

Not eligible for free Expedited Shipping

★★★★★ (0) [Write a review](#) | [Q&A](#)

ⓘ **WARNING:** This is a "European Voltage" product and CANNOT be used in the USA.

You Pay: **\$334.95**

QTY

ADD TO CART

[ADD TO WISH LIST](#)

Like Tweet  0


[Email](#) [Print](#)

OVERVIEW	SPECS	IN THE BOX	REVIEWS	ACCESSORIES	Q&A
Rating	150W				
Socket (Lampholder)	GY9.5				
Lens (Condenser)	2" (50mm) low expansion borosilicate fresnel lens				
Reflector (Mirror)	Spherical specular high purity aluminum				
Mounting	5/8" (16mm) stand mount				
Yoke	Fits on standard 5/8" stand or mounting stud				
Cable	15' (4.6 m)				
Focusing	Worm gear driven				
Weight	2.3 lbs (1kg)				

Recommended Accessories

Lamps /Tubes /Flashtubes

Required item: A lamp (not included) is required to operate this light.

 **Arri - A1248 Lamp for Arri 150W Fresnel (220V)**

You Pay: **\$33.95**

WARNING: This is a "European Voltage" product and CANNOT be used in the USA.

[+ Wish List](#) [ADD TO CART](#)

Light Stands & Accessories

[See More >](#)

Required item: A light stand (not included) is necessary to mount this light.

Dimensions	5.25 x 7.75 x 6.1" (13.3 x 19.7 x 15.6cm)
-------------------	---

Shipping Info

Shipping Weight	3.5 lb
Box Dimensions (WxHxD)	6.9 x 5.9 x 11.0



Arri - AS-1 Lightweight Light Stand (8.3')

You Pay: **\$96.25**

[+ Wish List](#) [ADD TO CART](#)



Impact - Air-cushioned Light Stand (Black, 8')

You Pay: **\$32.95**

[+ Wish List](#) [ADD TO CART](#)

Light Controls [See More >](#)



Arri - Four Leaf Barndoor Set for Arri 150W Fresnel

You Pay: **\$47.88**

[+ Wish List](#) [ADD TO CART](#)

Reflectors



Arri - Snoot for Arri 150W Fresnel

You Pay: **\$44.35**

[+ Wish List](#) [ADD TO CART](#)

Grip & Gaffer Gear [See More >](#)



ProTapes - Gaffer's Kit

You Pay: **\$57.06**

[+ Wish List](#) [ADD TO CART](#)

Light meters



Sekonic - L-308DC DigiCineMate

You Pay: **\$279.00**

[+ Wish List](#) [ADD TO CART](#)

Misc Accessories and Adapters



Impact - 2.0" End Jaw Vise Grip

You Pay: **\$44.00**

[+ Wish List](#) [ADD TO CART](#)

Customers Also Viewed:





YOUR RECENTLY VIEWED ITEMS

See any errors on this page? [Let us know.](#)

Sales: 800.606.6969 or 212.444.6615 Customer Service: 800.221.5743 or 212.239.7765

Hours of Operation

Directions to our NYC SuperStore

WHY SHOP AT B&H

Sign up for B&H news and special offers

Sign Up

Manage your Existing Subscription
See sample Newsletter

DealZone Alerts Weekly B&H Newsletter

Help

- Change/Cancel Order
- Contact Us
- Track/Request a Return
- Return Policy
- Unsubscribe from Catalog
- Unsubscribe from Email
- Shipping & Delivery
- Payments
- All Help Topics

Choose Currency

US Dollar

International

Language: English

Brasil Site

- Shipping
- Payments
- Customs

Company Information

- About Us
- NY Superstore
- The Event Space
- National Workshops
- Reviews & Awards
- Imaging Partners
- Affiliate Program
- Career Opportunities

B&H Resources

- Shop By Brand
- Manufacturers Directory
- Sourcebooks & Catalogs
- B&H Gift Card
- Browse our Winter 2015 Interactive Catalog
- Send Us your Feedback
- View our Mobile Site

Please note that B&H does not process web orders from Friday evening to Saturday evening. [Weekend hours](#)

Recommend

g+1

Follow

Follow @bhphotovideo

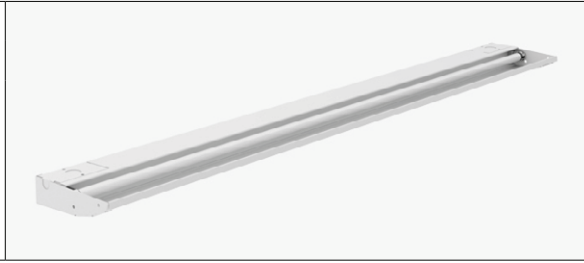
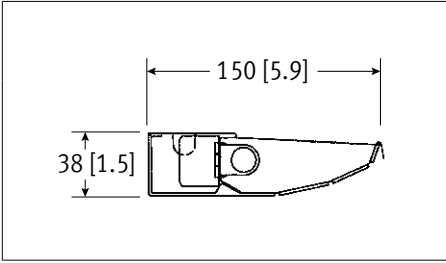
Like < 578k

© 2000-2015 B & H Foto & Electronics Corp. 420 9th Ave, New York, NY 10001
Privacy & Security User Agreement & Disclaimer Export Policy California Privacy Rights Site Map

Prices, specifications, and images are subject to change without notice. Not responsible for typographical or illustrative errors. Manufacturer rebates, terms, conditions, and expiration dates are subject to manufacturers printed forms NYC DCA Lic.: Elec. Store #0906712 Elec. & Home App. Serv. Deal. #0907905; Sec. Hd. Deal. Gen. #0907906

Cove FSD

Fluorescent . Cove



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:

TOTAL IS 97', DIVIDE RUNS WITH STOCK LENGTH SEGMENTS AS REQUIRED.

ORDERING LOGIC

FSD	1	T5HO	97'	C	W	W	R	1	COV	1	
# of lamps	Source	Length	Optics Up	Optics Down	Reflector	Finish	Ballast	Circuitry	Mounting	Voltage	IC
# of Lamps	Length	Optics Up	Finish	Circuitry	Voltage						
1 = 1 Lamp	2 = 2 ft	_ = Open Top	W = White (Standard)	1 = 1 Circuit	1 = 120 V						
	3 = 3 ft	C = Clear Dust Cover	C = Custom finish Specify RAL#:	EM = Emergency/Night Light	2 = 277 V						
	4 = 4 ft	Optics Down		B = Battery	3 = 347 V						
Source	8 = 8 ft	_ = None (leave space empty)		Mounting	4 = UNV (120-277 V)						
T5		Reflector	Ballast	COV = Cove	Integrated Controls (IC)						
T5HO		SPA = Specular Aluminum	R = Programmed Rapid Start (T5 / T5HO)		Consult factory						
		W = White	D1 = 0-10V Dimming								
			D2 = DALI								

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: A profile of 150mm [5.90"] x 38mm [1.50"]. Die formed post-painted 20-ga steel housing with knockouts on top and at the ends of the fixture. A quick access plate and removable lamp and ballast assembly simplify field maintenance. Fixtures are available in 610-, 915-, 1220-, 2440-mm [2-, 3-, 4-, 8-ft] lengths.

Optical System: Metalumen offers one of the most efficient cove lighting products in

the industry with an 83.8% efficiency. Choice of field variable mounting positions: horizontal, 12 or 24 degree angles. Computer modeled, formed, post painted steel reflector panels, or optional specular aluminum computer modeled reflector assemblies minimize socket shadows on the wall. FSD provides asymmetric distribution with peak candle power @ 115 degrees of 2169. Efficiency 82.6%.

Finish: White polyester powder coated paint finish with 91% reflectance is standard. Consult factory for custom colors/finishes.

Weight: .91 kg/300mm [2.0 lb/ft]
Mounting: Lamp and ballast assemblies are removable for ease of maintenance. Fixtures can be field installed without any disassembly and will accommodate flat, arched, floating or sloped ceiling

applications.

Ballast: Programmed Rapid Start, 0-10V Dimming, DALI

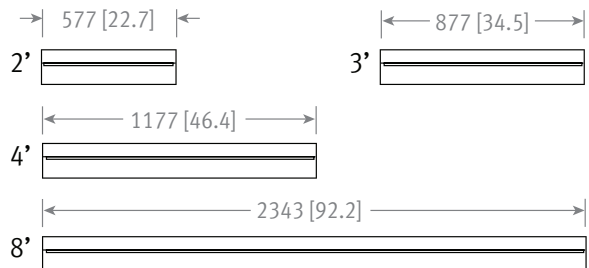
Integrated Controls: Consult factory.
Approvals: Certified to NRTL and IES testing standards. This product is cULus listed.

Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant a one year parts and labour warranty. Warranty is valid if luminaire is installed and used according to specification. The Ballast will carry a standard 5 year warranty by the manufacturer. If defective, Metalumen will send replacement ballasts or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

LENGTHS

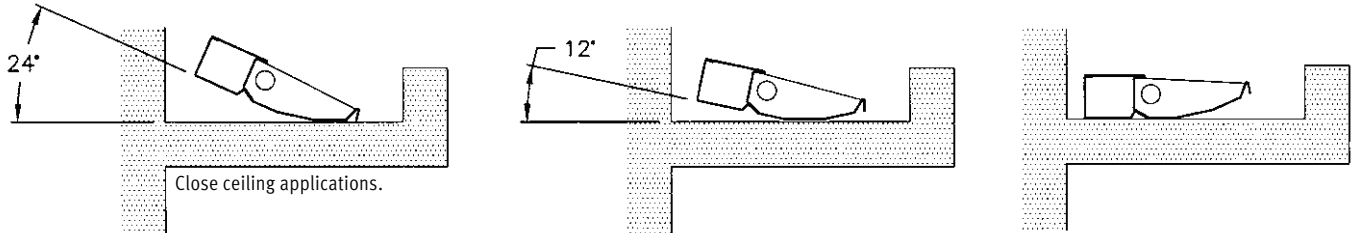


FEATURES

COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.

FIELD VARIABLE MOUNTING

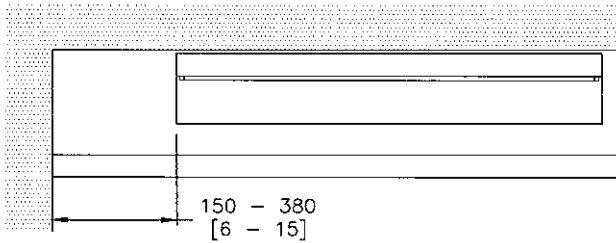
The cove series can be field mounted at several factory preset angles to provide variable beam distributions. Installation holes provided for each of the three mounting positions.



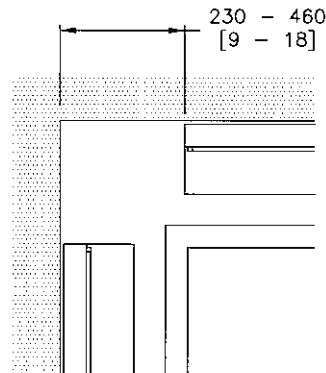
PHOTOMETRIC DISTRIBUTION AT CORNERS

In order to minimize brightness in corner situations the following spacing and stop distances are suggested for corner installations.

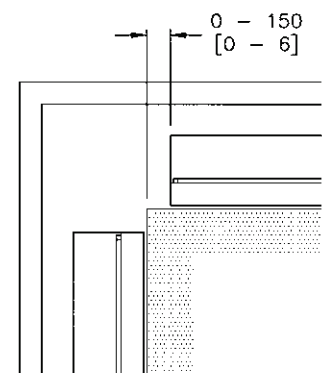
A - Stop at wall:



B - Inside corner:



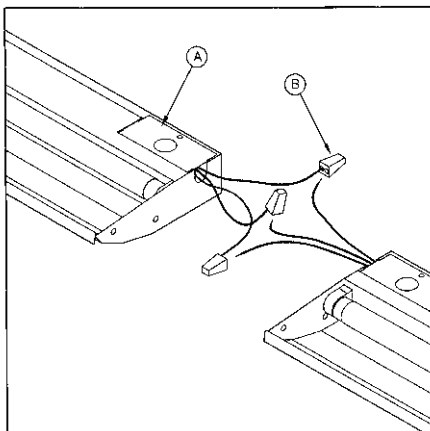
C - Outside corner:



ELECTRICAL

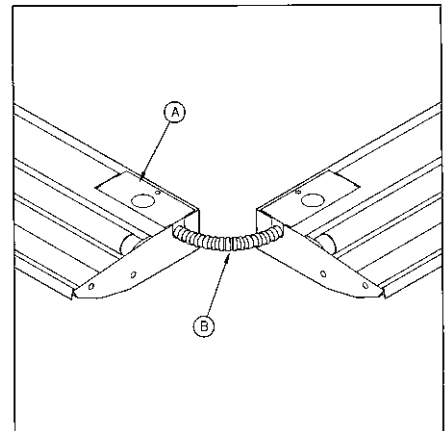
QUICK CONNECT

Knockouts are provided on top and at the ends of the fixture. All fixtures are prewired with push in quick connectors (B). In addition, the quick access plate (A) is removable to allow splice connections within the fixture.



CORNER INSTALLATION

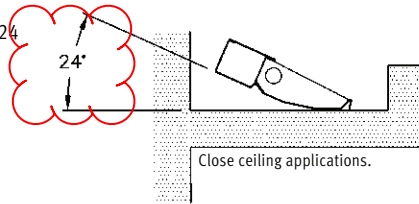
Knockouts are provided on top and at the ends of the fixture to accommodate BX and conduit connectors (by others). In addition, the quick access plate (A) is removable to allow splice connections within the fixture.



PHOTOMETRIC DATA

1 T5HO LAMP

File Name: FSD-1T5HO-4-W-24
 Luminaire Lumens: 3597
 Total Watts: 59
 Efficiency: 82 %
 Efficacy: 61 lms/W
 Reflector: White



CANDLEPOWER DISTRIBUTION

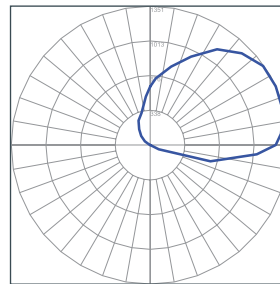
Vertical Angle	Horizontal Angle			
	0	22.5	45	67.5 90
0	0	0	0	0
5	0	0	0	0
15	0	0	0	0
25	0	0	0	0
35	0	0	0	0
45	0	0	0	0
55	0	0	0	0
65	95	49	2	0
75	609	481	206	12
85	1043	926	627	194
90	1224	1101	818	404
95	1280	1183	890	486
105	1338	1236	955	565
115	1351	1269	1006	613
125	1343	1270	1016	646
135	1261	1186	969	654
145	1137	1059	892	653
155	950	914	811	650
165	789	766	709	625
175	653	653	615	608
180	568	568	568	568

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	80	80	80	80	70	70	70	70	51	51	51	
1	70	65	61	57	60	56	53	49	40	37	35	
2	63	56	50	45	54	48	43	39	34	31	28	
3	57	49	42	37	49	42	37	32	30	26	23	
4	52	43	36	31	45	37	31	27	26	22	19	
5	48	38	31	26	41	33	27	23	23	19	16	
6	44	34	27	23	38	29	24	20	21	17	14	
7	40	30	24	19	35	26	21	17	19	15	12	
8	37	27	21	17	32	24	19	15	17	13	11	
9	35	25	19	15	30	22	16	13	16	12	9	
10	32	23	17	13	28	20	15	11	14	11	8	

PHOTOMETRIC CURVE

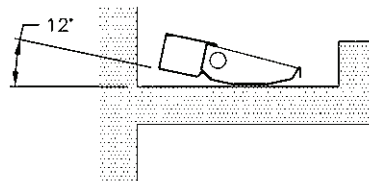


LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	0	0	0
55	0	0	0
65	1228	26	0
75	12856	4349	0
85	65383	39305	125

1 T5HO LAMP

File Name: FSD-1T5HO-4-W-12
 Luminaire Lumens: 3602
 Total Watts: 59
 Efficiency: 82 %
 Efficacy: 61 lms/W
 Reflector: White



CANDLEPOWER DISTRIBUTION

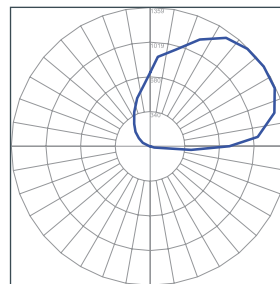
Vertical Angle	Horizontal Angle			
	0	22.5	45	67.5 90
0	0	0	0	0
5	0	0	0	0
15	0	0	0	0
25	0	0	0	0
35	0	0	0	0
45	0	0	0	0
55	0	0	0	0
65	0	0	0	0
75	41	28	2	0
85	404	349	185	35
90	777	714	510	249
95	1060	981	767	447
105	1262	1161	914	566
115	1348	1244	1015	682
125	1359	1293	1077	761
135	1347	1298	1098	814
145	1296	1228	1070	819
155	1152	1127	988	832
165	982	960	915	809
175	879	799	793	782
180	721	721	721	721

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	79	79	79	79	68	68	68	68	47	47	47	
1	70	67	63	60	60	57	54	52	40	38	36	
2	64	58	53	49	55	50	46	42	34	32	30	
3	58	51	45	40	50	44	39	35	30	27	25	
4	53	45	39	34	45	38	33	29	27	23	21	
5	49	40	33	29	41	34	29	25	24	20	18	
6	45	35	29	25	38	30	25	21	21	18	15	
7	41	32	25	21	35	27	22	19	19	16	13	
8	38	28	23	18	32	25	20	16	17	14	11	
9	35	26	20	16	30	22	17	14	16	12	10	
10	33	23	18	14	28	20	16	12	14	11	9	

PHOTOMETRIC CURVE



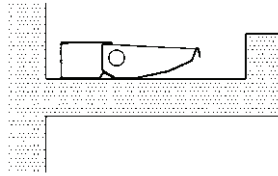
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	0	0	0
55	0	0	0
65	0	0	0
75	852	42	0
85	24928	11415	0

PHOTOMETRIC DATA

**1 T5HO
LAMP**

File Name: FSD-1T5HO-4-W
 Luminaire Lumens: 3606
 Total Watts: 59
 Efficiency: 82 %
 Efficacy: 61 lms/W
 Reflector: White



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			
	0	22.5	45	67.5 90
0	0	0	0	0
5	0	0	0	0
15	0	0	0	0
25	0	0	0	0
35	0	0	0	0
45	0	0	0	0
55	0	0	0	0
65	0	0	0	0
75	0	0	0	0
85	0	0	0	0
90	108	101	74	48 12
95	447	429	402	313 102
105	921	888	784	542 233
115	1231	1149	972	703 379
125	1325	1259	1077	827 512
135	1352	1315	1152	935 653
145	1359	1321	1205	997 756
155	1313	1280	1185	1009 845
165	1211	1178	1113	1013 897
175	1061	1057	1015	1010 968
180	967	967	967	967 967

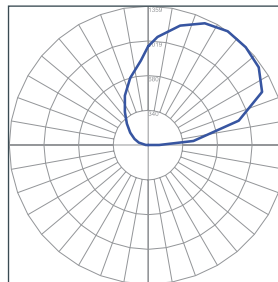
COEFFICIENTS OF UTILIZATION

Zonal Cavity Method

Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	78	78	78	78	67	67	67	67	46	46	46	
1	71	68	65	62	61	58	56	53	40	38	37	
2	65	59	54	51	55	51	47	44	35	32	30	
3	59	52	46	42	50	44	40	36	30	28	25	
4	54	46	40	35	46	39	34	31	27	24	21	
5	49	40	34	30	42	35	30	26	24	21	18	
6	45	36	30	25	38	31	26	22	21	18	16	
7	41	32	26	22	35	28	23	19	19	16	14	
8	38	29	23	19	32	25	20	17	17	14	12	
9	35	26	21	17	30	23	18	15	16	13	10	
10	33	24	18	15	28	20	16	13	14	11	9	

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

OVERVIEW / SPECIFICATION



EcoSpec[®] New Linear INT - Standard Power is an energy efficient, high output, simple installation fixture designed with superior optics, line voltage in-line connections, and others.

A member of the New Linear Series, the EcoSpec New Linear INT - Standard Power boasts many improved electrical and mechanical features in an unchanged form factor.

Features:

- Economical
- Simple Installation
- In-line Connection
- High Efficacy
- Integral Driver / AC Power
- Dimmable: ELV (RP), 0-10V
- Long Life (L70)
- Solid Construction
- Efficient Optics

PERFORMANCE	CCT (K)	Optic	Lumen Output		Efficacy (lm/W)
			12"	48"	
	2700K	120°x120°	223 lm/LF	892 lm	52.2lm/W
	3000K	120°x120°	249 lm/LF	996 lm	54.6lm/W
	3500K	120°x120°	264 lm/LF	1,056 lm	57.3lm/W
	4000K	120°x120°	306 lm/LF	1,224 lm	69.9lm/W
	Color Rendering Index	80+			
	Color Consistency	2 Step MacAdam Ellipse			
	Lumen Depreciation / Rated Life	L70 >60,000 hours @ 25°C*			
<small>* Calculations for LED fixtures are based on measurements that comply with IES LM-60 testing procedures and IES TM-21 Calculator.</small>					
ELECTRICAL	Power Consumption	4.5W Typical (The Typical input power range allows for a +/-10% variation of all components) 5W Maximum (All fixtures are labelled with Maximum wattage)			
	Max Fixture Run Length	140' (40m) @120VAC; 280' (80m) @220VAC ; 200' (60m) @277VAC			
	Power Factor	0.90			
	Operating Voltage	100-120VAC, 220-240VAC, 277VAC, 50/60 Hz (all voltages)			
	Driver	Integral to Fixture; De-rated Power and Synchronous Start-up at Full Brightness			
	Startup Temperature	-4°F to 122°F (-20°C to 50°C)			
	Operating Temperature	-4°F to 122°F (-20°C to 50°C)			
	Storage Temperature	-40°F to 176°F (-40°C to 80°C)			
CONTROL	Dimming	100-120VAC ELV type, Reverse Phase, Trailing Edge			
		220-240VAC ELV type, Reverse Phase, Trailing Edge 277VAC ELV type, Reverse Phase, Trailing Edge 120VAC / 277VAC, 0-10V with Linear Dimming Control Module (LDCM)			
PHYSICAL	Dimensions	W 2.0" x H 1.4" x L 12"/48"; (52mm x 35.7mm x 304mm/1,219mm)			
	Housing / Lens	Extruded Aluminium; Clear Polycarbonate; Stainless Steel Fasteners Plastic Endcaps with Plastic/Rubber Overmold for Cable Assembly			
	Weight	0.496lbs. / 0.225kg (1ft) ; 1.61lbs. / 0.73kg (4ft)			
	Connectors	Integral Male/ Female 3 Pin Connectors on Pigtail Cable Assembly, IP40 Rated			
	Environment	Indoor; CE Certified IP40 / ETL Certified for Dry/Damp Locations			
	Beam Angle	Clear Lens: 120°x 120°, Frosted Lens Accessory Available			
	Mounting Options:	Integral Adjustable 180° Rotation Brackets			
FITTURE RATING & CERTIFICATIONS	CE, ENEC, C-Tick Certified, CCC		     		
	ETL Certified				
	RoHS Compliant				

(*)ES and Title 24 - New Linear Select Models - PENDING

EcoSense THD/Inrush Current Information: Please contact an EcoSense Lighting sales representative

1	EcoSense Lighting Inc.	Phone 212-228-8118	Specifications subject to change without notice. Visit EcoSenseLighting.com for the most current specifications. © 2013 EcoSense Lighting Inc. All rights reserved. EcoSense, the EcoSense logo, and EcoSpec are registered trademarks of EcoSense Lighting Inc. SPEC-LCIS-20140110-V1
	80 Broad Street	Fax 212-228-9113	
	5th Floor	Toll Free 855-632-6736	
	New York, NY 10004	855-6-ECOSEN	

ECOSENSELIGHTING.COM

DATE _____ TYPE _____
 PROJ. _____
 FIRM _____

ORDERING

Choose the option that best suits your needs and write its corresponding code on the appropriate line to form the product code.

LCIS / LCIL	-	-	-	-	120
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC	
LCIS	12 - 12"	23 - 2300K##	120 - 100-120VAC	120 - 120° x 120°	
LCIL#	48 - 48"	27 - 2700K	220 - 220-240VAC		
		30 - 3000K	277 - 277VAC**		
		35 - 3500K			
		40 - 4000K			
EXAMPLE: LCIS - 12 - 27 - 120 - 120 (*Linear Cove Interior Standard Power)					
LCIL - 12 - 27 - 120 - 120 (*Linear Cove Interior Low Power)					
# See Linear INT Low Power Spec Sheet for more details					
## See Linear INT Warm Cove Spec Sheet for more details					

Wiring Options			
*INT Leader Cable, 3 Pin, 10ft, 110V	INT3P-A-LDR-120-10	INT Leader Cable, 3 Pin, 10ft, 220V	INT3P-A-LDR-220-10
INT Jumper Cable, 3 Pin, 5ft, 110V	INT3P-A-JMP-120-05	INT Jumper Cable, 3 Pin, 5ft, 220V	INT3P-A-JMP-220-05
INT Jumper Cable, 3 Pin, 1ft, 110V	INT3P-A-JMP-120-01	INT Jumper Cable, 3 Pin, 1ft, 220V	INT3P-A-JMP-220-01
INT Jumper Cable, 3 Pin, 4in, 110V	INT3P-A-JMP-120-4	INT Jumper Cable, 3 Pin, 4in, 220V	INT3P-A-JMP-220-4
* One (1) Terminator included standard with each leader cable.			
One Leader Cable is required per circuit / fixture run. Leader cable has bare leads one end, female connector opposite end. Leader / Jumper cables are not rated for plenum applications.			
**The 120VAC cables are also rated for 277VAC use.			

Control Options	
100-120VAC / 277VAC Linear Dimming Control Module 0-10V	LDCM-120-277-010V-GR

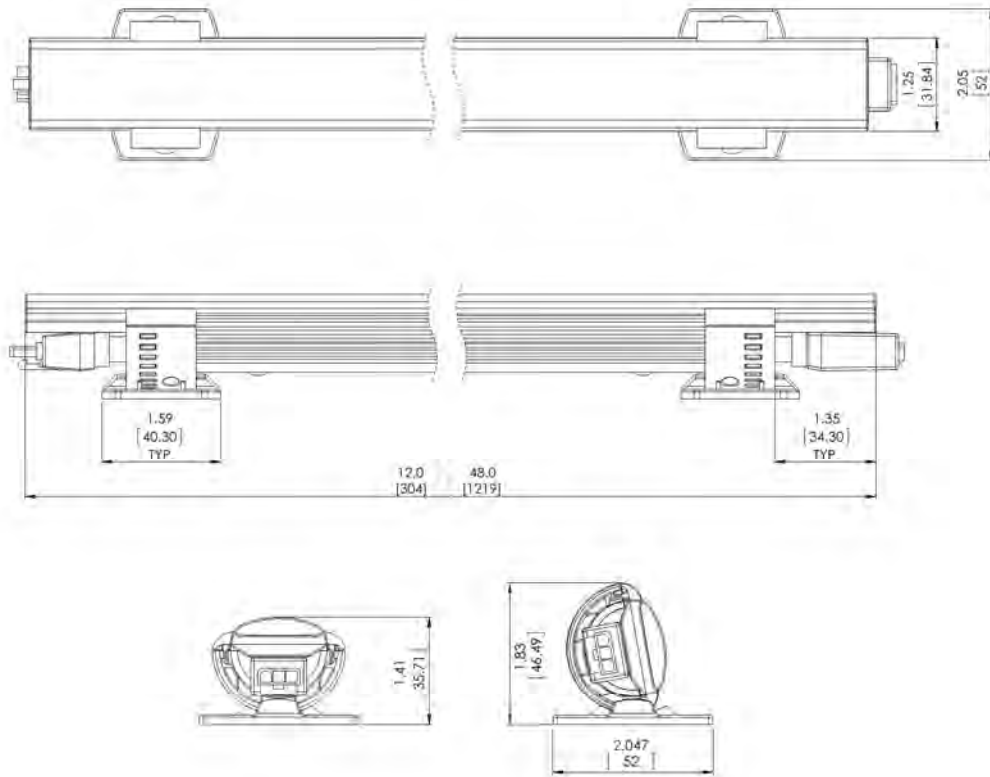
Mounting Options	
Integral, 180° Adjustable Brackets	Factory installed with 2 (two) per product length, non-removable.

Frosted Lens Option		
Frosted Lens, Linear INT, 12in	LCI-A-FRLS-12	Snap-on lens before or after mounting fixture.
Frosted Lens, Linear INT, 48in	LCI-A-FRLS-48	Snap-on lens before or after mounting fixture.

DATE _____ TYPE _____
 PROJ. _____
 FIRM _____

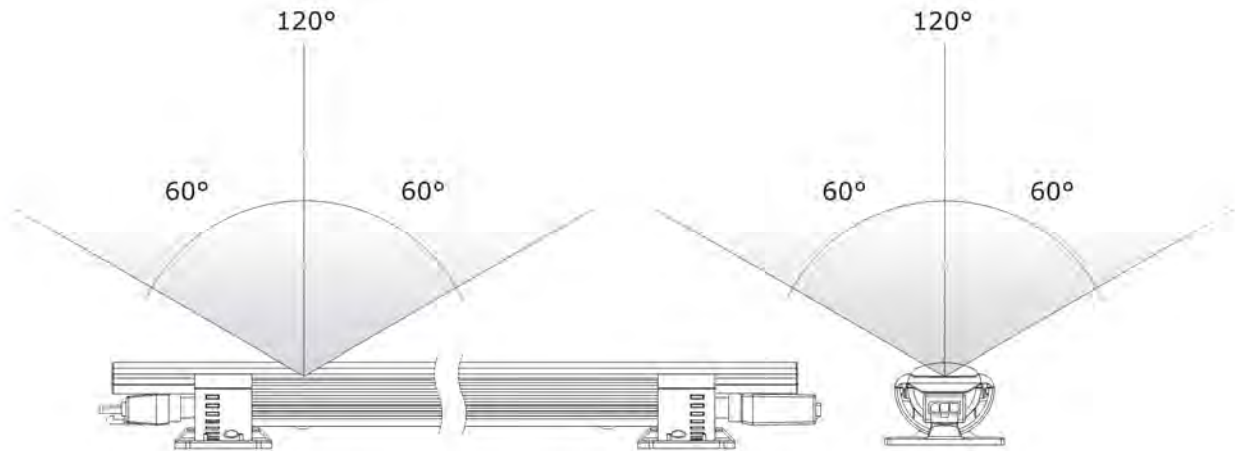
DIMENSIONS

For complete dimensions and submittal drawings, please visit:
ecosenselighting.com



DIMENSION IN
 INCHES / [MM]

DISTRIBUTIONS



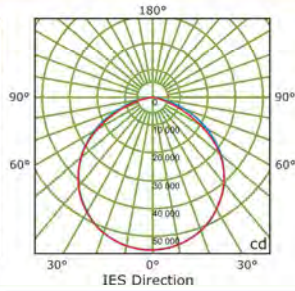
PHOTOMETRY CHARACTERISTICS

For complete library of IES files, please visit:
ecosenselighting.com

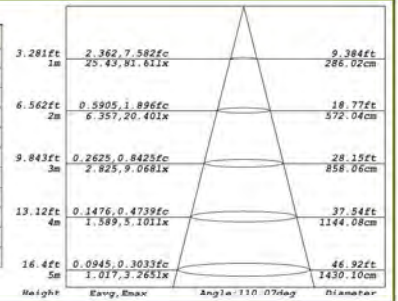
120°x 120°

2700K

CHARACTERISTICS: LINEAR INT - SW (LCIS) 2700K / 120°x 120°	
Total Rated Fixture Lumens	223
Total Luminaire Efficiency	100%
Total Input Watts	4.28W
Horizontal Beam Angle (50%)	112.3
Vertical Beam Angle (50%)	109.7
Horizontal Field Angle (10%)	157.4
Vertical Field Angle (10%)	151.4

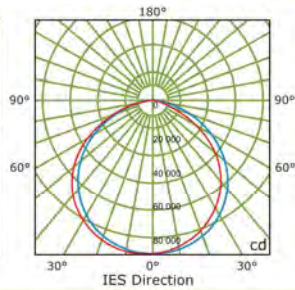


	0	22.5	45	67.5	90
0	81.5	81.5	81.5	81.5	81.5
5	81.2	81.5	81.7	81.6	81.6
15	78.6	79.1	79.8	80.0	80.4
25	73.4	74.5	75.6	75.8	76.1
35	65.4	66.8	68.6	69	69.4
45	54.9	57.5	58.7	59	59.6
55	42	44.6	46.1	46.2	46.4
65	26.9	29	30	28.9	28.8
75	11.7	12.3	11.1	13.2	13.9
85	1.4	1.6	1.1	1.1	1.3
90	0.3	0.4	0.7	1.0	1.1

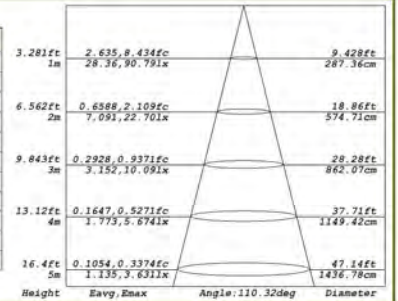


3000K

CHARACTERISTICS: LINEAR INT - SW (LCIS) 3000K / 120°x 120°	
Total Rated Fixture Lumens	249
Total Luminaire Efficiency	100%
Total Input Watts	4.58W
Horizontal Beam Angle (50%)	112.8
Vertical Beam Angle (50%)	109.9
Horizontal Field Angle (10%)	158
Vertical Field Angle (10%)	150.9

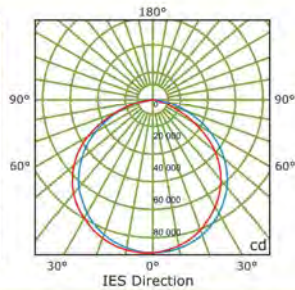


	0	22.5	45	67.5	90
0	90.7	90.6	90.7	90.6	90.7
5	90.4	90.1	89.9	89.5	89.6
15	87.7	86.8	86.2	85.2	85.2
25	82.4	81	79.7	78.3	78
35	73.7	71.8	70.1	68.4	68.1
45	62.3	60.5	57.7	55.8	55.3
55	48.1	45.9	42.9	39.6	38.5
65	31.2	28	23.7	19.9	18.3
75	14.2	9.9	5.7	4.2	3.3
85	1.7	1	0.6	0.4	0.5
90	0.3	0.1	0.3	0.3	0.3

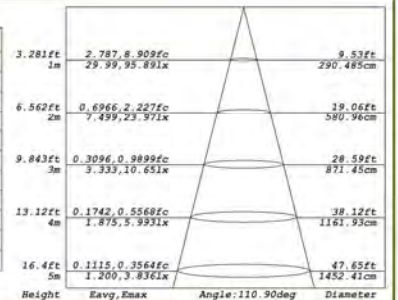


3500K

CHARACTERISTICS: LINEAR INT - SW (LCIS) 3500K / 120°x 120°	
Total Rated Fixture Lumens	264
Total Luminaire Efficiency	100%
Total Input Watts	4.61W
Horizontal Beam Angle (50%)	113
Vertical Beam Angle (50%)	110.3
Horizontal Field Angle (10%)	157.5
Vertical Field Angle (10%)	150.1

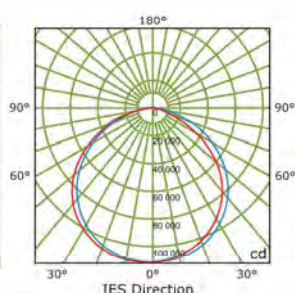


	0	22.5	45	67.5	90
0	95.8	95.8	95.8	95.8	95.8
5	95.5	95.3	95	94.6	94.6
15	92.6	91.9	90.8	90.1	90.3
25	86.9	85.7	83.8	83	82.5
35	77.8	76	74.2	73	72.2
45	66.1	64.2	61.5	59.4	58.6
55	51.2	48.4	45.1	41.6	40.1
65	33.1	29.9	24.5	19.9	18.1
75	14.6	10.5	6.4	3.5	3
85	2	1.5	1	0.8	0.9
90	0.5	0.3	0.7	0.6	0.7

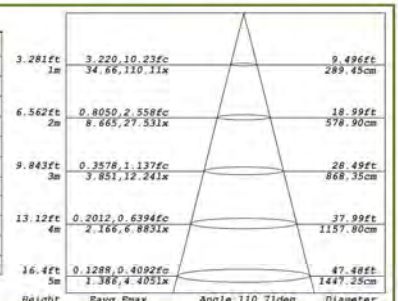


4000K

CHARACTERISTICS: LINEAR INT - SW (LCIS) 4000K / 120°x 120°	
Total Rated Fixture Lumens	306
Total Luminaire Efficiency	100%
Total Input Watts	4.38W
Horizontal Beam Angle (50%)	113.6
Vertical Beam Angle (50%)	110.5
Horizontal Field Angle (10%)	157.9
Vertical Field Angle (10%)	152



	0	22.5	45	67.5	90
0	110	109.9	110	109.9	110
5	109.7	109.4	109.2	108.8	108.9
15	106.7	105.8	105.4	104.2	104.3
25	100.2	98.9	98	96.4	96.1
35	90	88.4	86.8	84.8	84.5
45	76.2	74.9	71.9	69.6	68.9
55	58.6	57	53.2	49.1	48
65	38.6	35.9	29.2	25	23.5
75	17.4	12.5	8.1	6.7	5.5
85	2.1	1.2	0.8	0.6	0.7
90	0.4	0.3	0.5	0.5	0.5



Photometrics by an independant lab in accordance with current IES published Procedures.
 * Lumen measurements comply with IES LM-79-08.
 IES data is available at www.ecosenselighting.com


DATE _____ TYPE _____

PROJ. _____

FIRM _____

LIGHTING FACTS LABELS

LED
EcoSense Lighting



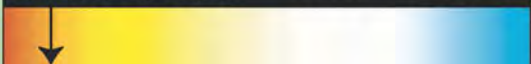
lighting facts®

A Program of the U.S. DOE

Light Output (Lumens)	223
Watts	5
Lumens per Watt (Efficacy)	52

Color Accuracy Color Rendering Index (CRI)	86
--	-----------

Light Color
Correlated Color Temperature (CCT) **2791 (Warm White)**



Warm White
Bright White
Daylight

2700K
3000K
4500K
6500K

Warranty**	Yes
-------------------	------------

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

** See www.lightingfacts.com/products for details.

Registration Number: XNX5-FREELD (7/18/2013)
Model Number: LCIS-12-27-120-120
Type: Cove light

a·light
elements

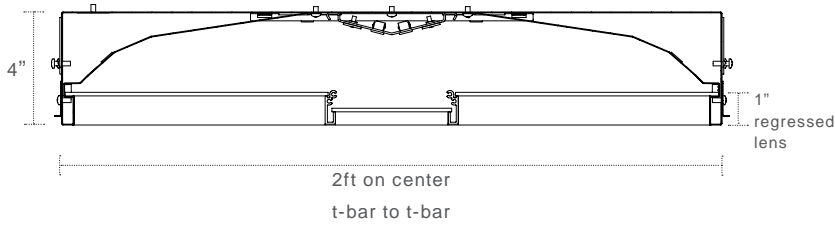


H1
recessed

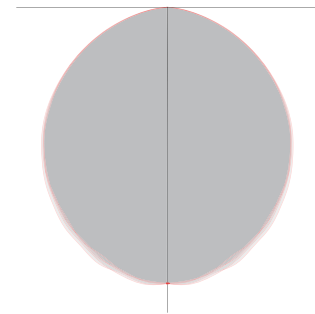
direct



recessed 2' x 2'



LED



HTD™
lens

LED per foot	2 boards in cross	
	watts/ft	lumens/ft
LS	10	1200
LH	20	2400

Lumens at board at 4000k.
Consult IES files online for delivered lumens.
Specifications subject to change.

Available Light Platforms:



Available Mounting:



interior

Mounting:

Universal T-Bar: Flange is designed to fit into both 9/16" and 15/16" standard T-Bar systems. For 9/16" slot ceiling, vertically adjustable flange may be raised to the top of the slot T-Bar for flush mounting. No visible flange.

Optics:

Choice of...
Standard opal acrylic lens.
HTD™ high performance, high transmission, dichotomous opal polycarbonate lens. 93% transmission.

Lengths:

All length dimensions are designed at exactly 2' and 4' on-center for use in T-Bar systems.

LED:

5yr warranty. >60,000hr LED life. Tested to LM-79 and LM-80. See wattage/lumen table for specifications per foot. All specifications are subject to change.

T5/T5HO:

Single, dual or triple lamps in cross section. Program start is factory standard.

T8:

Single, dual or triple lamps in cross section. Instant start is factory standard: choose low <0.8BF; standard 0.8-1.0BF; high >1.0BF. Specify if program start or custom ballast factor is required.

Construction:

22GA steel housing designed to emulate the lines of a T-Bar grid system.

Finish:

Electrostatically applied powder coat finish.

Listing:

UL/CUL. Damp Location.

Companion Luminaires:

H2 recessed

Legend:

- 1. Standard multi-circuiting: see fixture chart below.

Series: H1

Dimension: _____

nominal 2' x 2' | 2
nominal 2' x 4' | 4

Lamping: _____

LED standard output | LS
LED high output | LH
T5 (1) | S
T5HO (1) | H
T5 (2) | D
T5HO (2) | O
T5 (3) | T
T5HO (3) | F
T8 (1) low output | T8L
T8 (1) standard output | T8S
T8 (1) high output | T8H
T8 (2) low output | T8LD
T8 (2) standard output | T8SD
T8 (2) high output | T8HD
T8 (3) low output | T8LT
T8 (3) standard output | T8ST
T8 (3) high output | T8HT

LED Temp (if applicable): _____

3000k | 30
3500k | 35
4000k | 40

Voltage: _____

universal 120V - 277V | U
120V | 1
277V | 2
347V | 3

Optics: _____

opal acrylic lens | OA
HTD™ opal polycarbonate lens | HTD

Mounting: _____

universal t-bar | K
gloss white | L

Options: _____

dimming - specify manufacturer, model/series and voltage | D
emergency (fluorescent only) - specify model/series or lumens | E
external fusing | F
multi-circuit ¹ | M
new york city code | N
chicago plenum code | C

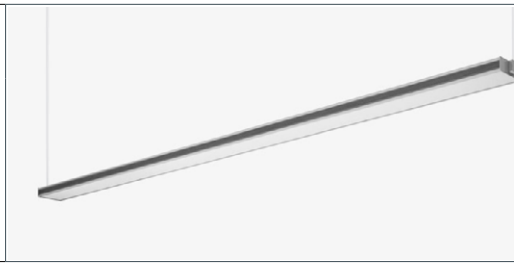
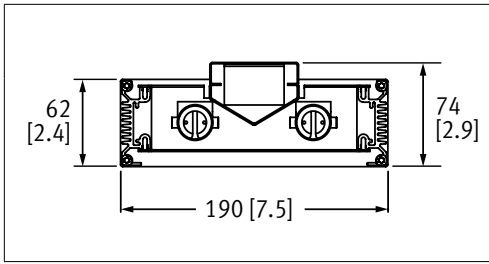
recessed

Multi-circuit standards



Platin 1 SD4

Fluorescent . Pendant



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:

ORDERING LOGIC

# of Lamps	Length	Optics	Ballast	Circuitry	Mounting	Voltage	IC
2	4	Optics					
# of Lamps	Length	Optics Down	Ballast	Circuitry	Mounting	Voltage	Integrated Control (IC)
2 = 2 Lamps	4 = 4 ft	_ = Open Top (leave space empty)	E = Electronic Instant Start (T8)		PA = Pendant Aircraft Cable		_ = None (leave space empty)
Source	8 = 8 ft	ML = Micro Linear Lens	R = Programmed Rapid Start		PT = Pendant Aircraft Cable for T-Bar		D = Daylight Sensor
T8	12 = 12 ft	MP = Micro Prismatic Lens	D1 = 0-10V Dimming		SS = Solid Stem		O = Occupancy Sensor
T5	R = Continuous Rows (Consult factory)	Finish	D2 = DALI		<i>Select HANGER LENGTH and HANGER FINISH on p2</i>		DO = Daylight/Occupancy Sensor
T5H0	Body	A = Anodized aluminum body with silver metallic paint finish on metal end caps	Circuitry	Voltage			
	D = Ribbed	C = Custom Finish on end caps Specify RAL#:	1 = 1 Circuit	1 = 120 V			
	S = Smooth		LR = Left/Right Switching (2 Lamps)	2 = 277 V			
	Optics Up		EM = Emergency/Night Light	3 = 347 V			
	_ = Open Top (leave space empty)		B = Battery	4 = UNV (120-277 V)			

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: A low profile, rectangular direct/indirect luminaire with a single louver opening at 161mm [6.3"]. The side profile is offered in a choice of either ribbed or smooth detail and made from extruded aluminum with an anodized matte finish and painted end caps.

Optical System: The SD4 provides up to 63% downlight depending on the control option selected.

Finish: Anodized aluminum body with silver metallic paint finish on metal end caps is standard. Consult factory for custom colors/finishes.

Weight: 2.9 kg/ea [6.5 lb/ea]

Mounting: Pendant: Aircraft cable field adjustable is standard with Easy Adjust Quick Connect Cable Grips that are self-locking tamper resistant (contact factory for custom lengths). Solid Stem: Solid stem 13mm (1/2") OD. Factory prewired

with easy wire quick connect sections.

Ballast: Instant Start (T8) , Programmed Rapid Start, 0-10V Dimming, DALI

Approvals: Certified to NRTL and IES testing standards. cULus certified.

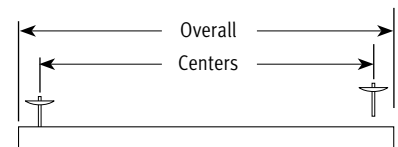
Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant a one year parts and labour warranty. Warranty is valid if luminaire is installed and used according to specification. The Ballast will carry a standard 5 year warranty by the manufacturer. If defective, Metalumen will send replacement ballasts or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

MOUNTING INFORMATION

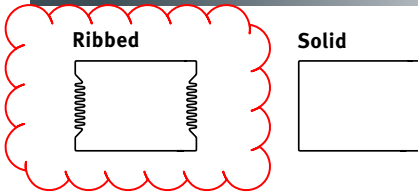
Nominal Length	Overall mm [in]		Centers mm [in]	
	T8	T5	T8	T5
4'	1294 [50.9]	1243 [48.9]	1270 [50.0]	1219 [48.0]
8'	2535 [99.8]	2433 [95.8]	2512 [98.9]	2410 [94.9]
12'	3777 [148.7]	3623 [142.6]	3754 [147.8]	3600 [141.7]



Mounting dimensions indicated are for individual units only. For continuous row mounting dimensions consult factory.

Platin 1 SD4 Fluorescent . Pendant

BODY



FEATURES



COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.

HANGER

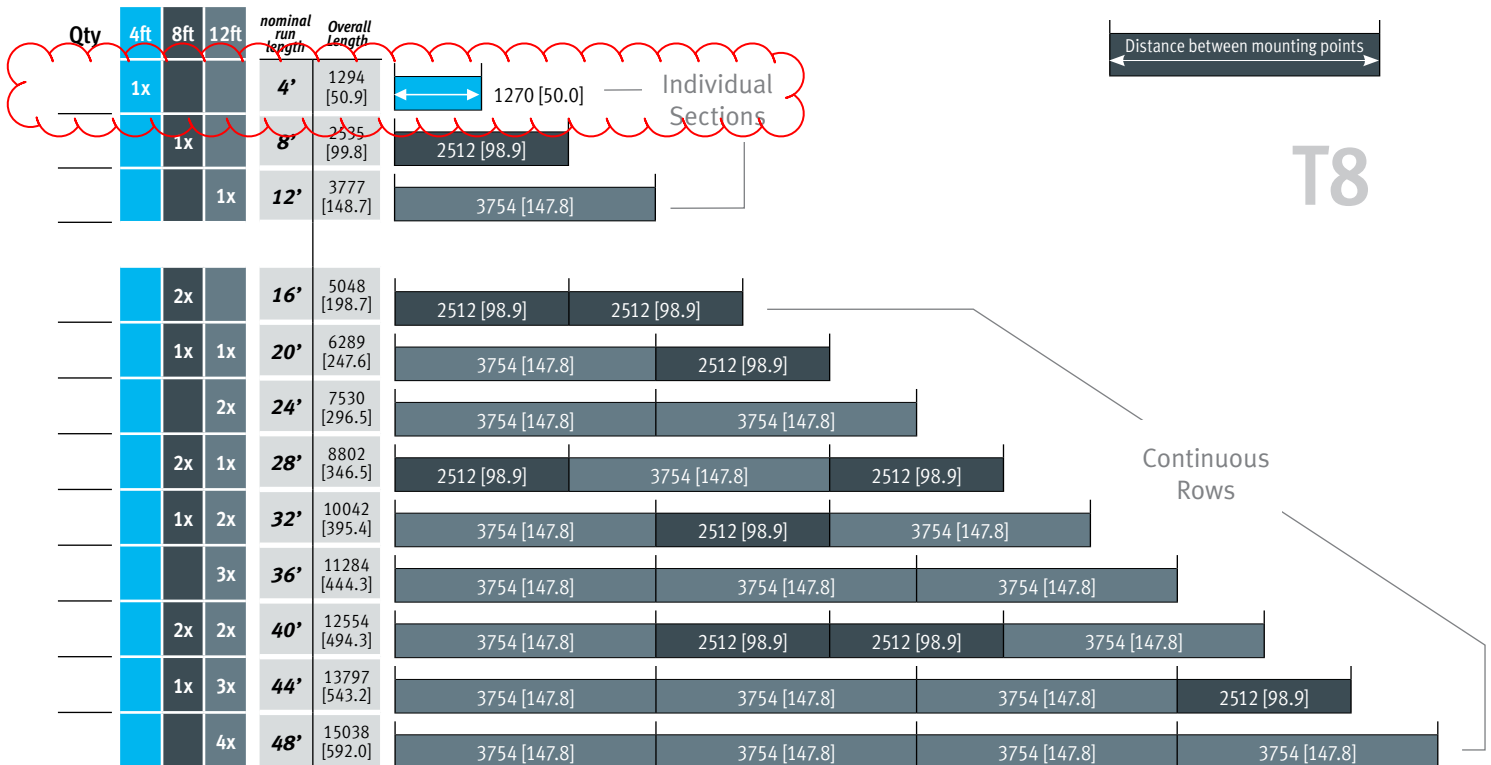
Select Hanger Length and Finish:

HANGER FINISH	
<input checked="" type="checkbox"/>	White Paint (Standard)
<input type="checkbox"/>	Custom <i>Specify RAL#:</i>

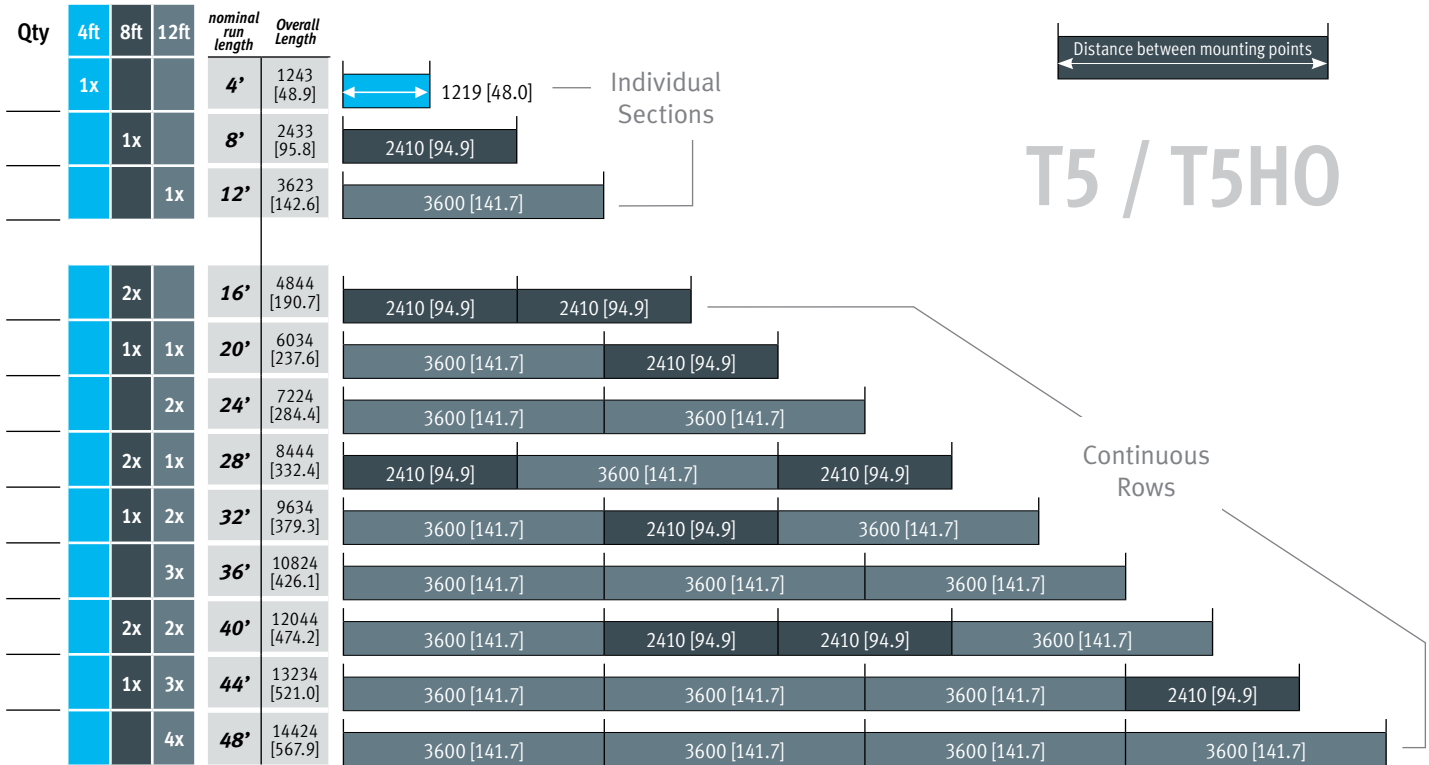
SOLID STEM 1/2" OD STANDARD		
Standard supplied length is 18" (460mm). Hangers will be supplied at closest length. All other lengths are considered custom unless otherwise stated.		
	IMPERIAL (in)	METRIC (mm)
<input checked="" type="checkbox"/>	12	305
<input type="checkbox"/>	15	380
<input type="checkbox"/>	18	460
<input type="checkbox"/>	21	533
<input type="checkbox"/>	24	610
<input type="checkbox"/>	27	685
<input type="checkbox"/>	30	760
<input type="checkbox"/>	33	840
<input type="checkbox"/>	36	915
<input type="checkbox"/>	39	990
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	45	1145
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	Custom length:	

AIRCRAFT CABLE		
Total adjustment range is 6" up & down for each standard length. All other lengths are considered custom unless otherwise stated.		
	IMPERIAL (in)	METRIC (mm)
<input type="checkbox"/>	12	305
<input type="checkbox"/>	18	460
<input type="checkbox"/>	24	610
<input type="checkbox"/>	30	760
<input type="checkbox"/>	36	915
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	54	1372
<input type="checkbox"/>	60	1525
<input type="checkbox"/>	72	1830
<input type="checkbox"/>	96	2440
<input type="checkbox"/>	120	3050
<input type="checkbox"/>	144	3660
<input type="checkbox"/>	Custom length:	

MOUNTING - ROW CONFIGURATION



MOUNTING - ROW CONFIGURATION

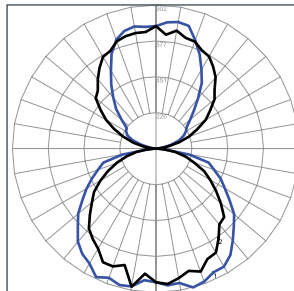


PHOTOMETRIC DATA

2 T8 LAMPS

File Name: SD4-2T8-4
Luminaire Lumens: 4873
Input Watts: 78
Efficiency: 84 %
Efficacy: 62 lms/W
Optics Up: Open Top
Optics Down: Open Bottom

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	839.1	839.1	839.1	839.1	839.1
5	853.42	860.49	814.83	862.56	875.6
15	795.52	835.07	875.96	902.33	894.43
25	766.92	805.91	864.19	858.1	895.27
35	687.72	749.78	771.19	815.55	814.4
45	607.94	645.79	682.96	692.44	695.92
55	461.06	529.13	539.8	567.23	577.36
65	334.51	379.61	407.27	450.52	458.07
75	195.56	224.91	287.57	343.34	355.86
85	56.35	77.02	69.71	58.94	51.61
95	29.78	25.11	19.73	16.84	14.55
105	151.77	104.87	106.45	98.56	91.83
115	285.36	214.84	173.94	194.03	195.87
125	416.51	364.27	247.01	236.68	239.64
135	522.25	505.83	404.38	336.52	319.55
145	627.8	629.97	549.55	502.2	467.23
155	681.33	729.04	701.6	650.7	618.51
165	720.55	736.18	774.72	798.42	782.65
175	717.38	790.79	769.71	796.12	785.71
180	770.42	770.42	770.42	770.42	770.42

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RCR												
0	92	92	92	92	86	86	86	86	75	75	75	75
1	84	80	76	73	78	74	71	68	65	63	60	60
2	76	69	63	58	70	64	59	55	56	52	49	49
3	69	60	53	48	64	56	50	46	49	45	41	41
4	63	53	46	40	58	50	43	38	43	38	34	34
5	57	47	40	34	53	44	38	33	39	33	29	29
6	53	42	35	30	49	39	33	28	35	29	25	25
7	49	38	31	26	45	36	29	25	31	26	22	22
8	45	34	27	23	42	32	26	22	29	23	20	20
9	42	31	25	20	39	30	23	19	26	21	18	18
10	39	29	22	18	37	27	21	17	24	19	16	16

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	4395	4938	5032
55	4110	4811	5146
65	4047	4927	5541
75	3863	5680	7029
85	3305	4089	3027

PHOTOMETRIC DATA

2 T5
LAMPS

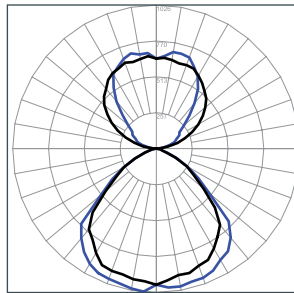
File Name: SD4-2T5-4-MP
 Luminaire Lumens: 4297
 Input Watts: 66
 Efficiency: 82 %
 Efficacy: 65 lms/W
 Optics Up: None
 Optics Down: Micro Prismatic lens

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RCR												
0	90	90	90	90	83	83	83	83	72	72	72	
1	82	79	76	74	77	74	71	69	64	62	60	
2	76	70	65	61	70	65	61	58	57	54	51	
3	69	62	56	52	64	58	53	49	51	47	44	
4	64	55	49	44	59	52	46	42	45	41	38	
5	59	49	43	38	55	46	41	36	41	36	33	
6	54	44	38	33	50	42	36	32	37	32	29	
7	50	40	34	29	47	38	32	28	33	29	25	
8	47	37	30	26	43	34	29	25	31	26	23	
9	43	33	27	23	40	32	26	22	28	24	20	
10	41	31	25	21	38	29	24	20	26	21	18	

PHOTOMETRIC CURVE



CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	972.77	972.77	972.77	972.77	972.77
5	942.43	952.33	988.46	994.43	1021.13
15	918.52	950.82	986.13	982.56	988.38
25	877.55	890.17	952.67	961.25	991.09
35	766.81	796.35	847.37	894.12	900.83
45	593.53	617.55	690.6	734.11	750.76
55	325.45	348.04	361.53	368.62	366.25
65	150.05	187.6	165.93	163.65	192.05
75	40.45	66.25	53.32	42.48	68.56
85	11.67	28.88	21.98	14.92	27.93
95	30.31	25.33	19.31	16.18	15.38
105	155.26	102.15	101.52	103.85	98.74
115	283.79	214.38	152.01	157.99	162.59
125	407.37	372.83	246.07	202.05	207.56
135	504.57	509.13	423.27	336.54	315.79
145	573.16	606.25	570.17	522.42	500.18
155	631.51	666.73	668.59	640.9	634.64
165	630.47	675.96	691.26	702.49	721.08
175	650.56	654.78	652.63	663.61	665.13
180	642.44	642.44	642.44	642.44	642.44

LUMINANCE DATA (CD/M²)

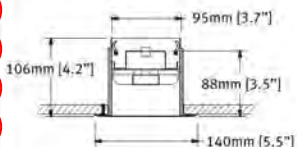
Vertical Angle	Horizontal Angle		
	0	45	90
45	3246	3059	3157
55	2145	1795	1701
65	1294	971	1030
75	528	394	452
85	333	230	248

Clearway HC08, HC07

FEATURES
Descriptions



HC07



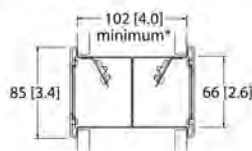
HC08



Single Side



Double Side Through Wall (2 single side units)



SPECIFICATIONS

- Housing** HC07 - Aluminum recessed down light frame in kit, non-ferrous construction on entire assembly with remotely mounted drivers and anti-microbial protection.
HC08 - Recessed steel housing with sealed lens cover plate. Anti-microbial protection.
- Finish** Powder cured white paint.
- Weight** HC07 - 1.59 kg [3.5 lbs]
HC08 - Single Side 1.6 kg [3.5 lbs]; Double Side 2.7 kg [6 lbs]
- Mounting** HC07 - Recessed T-Bar
HC08 - Recessed Drywall or Double Side mounting
- Electrical** Factory pre-wired.
- Approvals** This product is cULus listed.
- Environment** Suitable for dry locations.

ORDERING LOGIC

Model	Light Source	Color Temp	Optics	Finish	Driver	Circuitry	Mounting	Voltage	Options
HC07	LED	30K 3000K	N None	W White	N None	1 1 Circuit	RD Recessed Drywall	120	N None
		35K 3500K		A Anti-microbial Paint			RT Recessed T-Bar (HC07 only)		
		40K 4000K		C Custom Finish Specify RAL#:			D Double Side (HC08 only)		
HC08			HC High Impact Opal Acrylic Lens						
			HC1 High Impact Amber Acrylic Lens						
			HC2 High Impact Blue Acrylic Lens						

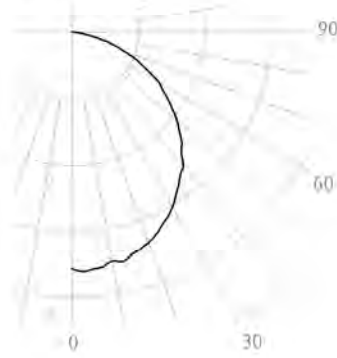
For complete specification sheet, visit <http://www.metalumen.com/Products/~Family/37/Clearway>
Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

PHOTOMETRICS

HC08 - 2X2

Report No.: LSC D251
 Total Lumens: 19
 Input Watts: 6.7
 Efficiency: 100%
 Power factor: .975

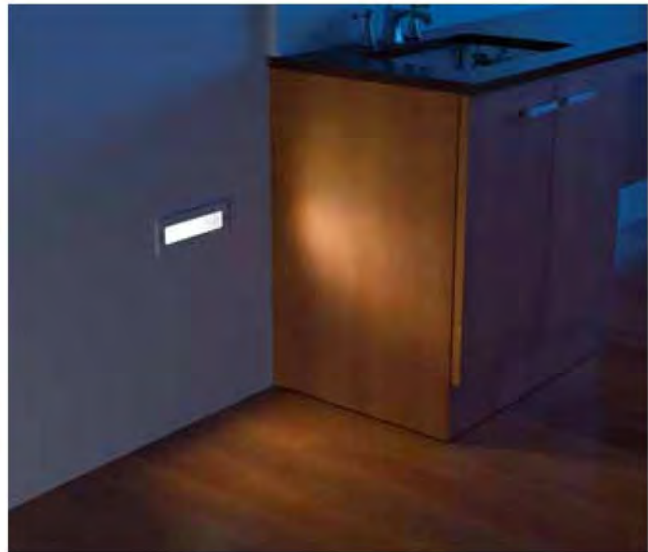
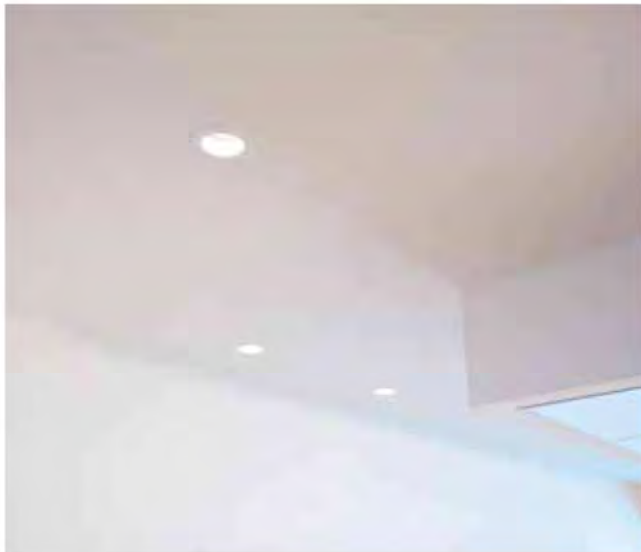
CURVE



COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50		
RW	70	50	30	10	70	50	30	10	50	30	10
RW											
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11
1	1.12	1.09	1.06	1.03	1.10	1.07	1.04	1.01	1.02	1.00	.98
2	1.04	.97	.92	.87	1.01	.95	.91	.86	.92	.88	.84
3	.95	.87	.80	.75	.93	.85	.79	.74	.83	.77	.73
4	.88	.78	.71	.65	.86	.77	.70	.65	.75	.69	.64
5	.82	.70	.62	.57	.79	.69	.62	.56	.67	.61	.56
6	.75	.63	.55	.50	.73	.62	.55	.49	.61	.54	.49
7	.69	.57	.49	.43	.68	.56	.48	.43	.55	.48	.43
8	.64	.52	.44	.38	.63	.51	.43	.38	.50	.43	.38
9	.60	.47	.39	.34	.58	.46	.39	.34	.45	.38	.33
10	.55	.43	.35	.30	.54	.42	.35	.30	.41	.34	.30



Stail RMEP

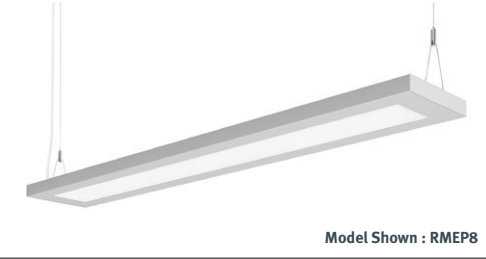
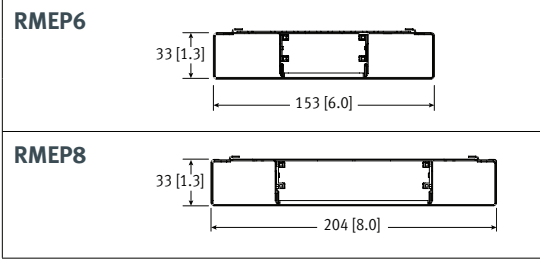
LED . Pendant



MetaICE



CAT #:
PREP BY:
DATE:
PROJECT:
TYPE:
NOTES:



ORDERING LOGIC

Model		Optics							Voltage		IC																		
RMEP	8	2L35K	R	M		SG	1	PA	120	O																			
Series	Width	Color Temp	Length	Up	Down	Finish	LL/Driver	Circuitry	Mounting	Voltage	IC																		
Width		Length		Optics - Down		Light Level (LL) / Driver		Circuitry		Voltage																			
6 = 6 inches		4 = 4 ft		M = Meta Ice		Fixture Lumens *Light level measured at 3500K. Add 3% lumen output for 4000K or subtract 2% lumen output for 3000K.		1 = 1 Circuit		1 = 120 V																			
8 = 8 inches		8 = 8 ft						EM = Emergency/Night Light		2 = 277 V																			
		R = Continuous Rows See p.2						B = Battery Pack		4 = UNV (120-277V)																			
Color Temp				Finish				Mounting		Integrated Control (IC)																			
2L30K = 3000K		Optics Up		SG = Silver/grey textured coat				PA = Pendant Aircraft Cable		= None (leave space empty)																			
2L35K = 3500K		= None - Open Top (leave space empty)		C = Custom Finish Specify RAL#:				PT = Pendant Aircraft Cable for T-Bar		D = Daylight Sensor																			
2L40K = 4000K		ODC = Opal Dust Cover 20% up/80% down						Select CABLE LENGTH and HANGER FINISH on p.2		O = Occupancy Sensor																			
		C = Clear Dust Cover								DO = Daylight/Occupancy Sensor																			
						<table border="1"> <thead> <tr> <th>0-10V Dimming (Standard)</th> <th colspan="2">3500K</th> </tr> <tr> <th></th> <th>RMEP6</th> <th>RMEP8</th> </tr> </thead> <tbody> <tr> <td>L1 =</td> <td>3064</td> <td>3176</td> </tr> <tr> <td>L2 =</td> <td>3904</td> <td>4047</td> </tr> <tr> <td>L3 =</td> <td>5596</td> <td>5801</td> </tr> <tr> <td>L4 =</td> <td>10727</td> <td>11120</td> </tr> </tbody> </table> Based on 4ft sections.		0-10V Dimming (Standard)	3500K			RMEP6	RMEP8	L1 =	3064	3176	L2 =	3904	4047	L3 =	5596	5801	L4 =	10727	11120				
0-10V Dimming (Standard)	3500K																												
	RMEP6	RMEP8																											
L1 =	3064	3176																											
L2 =	3904	4047																											
L3 =	5596	5801																											
L4 =	10727	11120																											

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

Housing: Cold rolled steel body fabrication, 0.91mm (20 Ga.) wall thickness.

Optical System: MetalLED mid flux LED technology.

CRI: Minimum 83 CRI at 3500K

Lumen Maintenance: At an ambient operating temperature of 25°C the LED

lifetime expectancy => 50 000 hrs at L70.

Finish: Silver/grey textured powder-coat paint. For custom finish, consult factory.

Mounting: Pendant: Aircraft cable with Quick-Grip field adjustable suspension system provides for quick and easy onsite alignment.

Electrical: Factory prewired with easy wire quick connect sections.

Drivers: Metalumen offers dimming drivers as a standard on our entire LED product offering at 0-10V. Dimming is 10%-100% range Power factor is >90% with a Class 2 rating.

Integrated Controls: Refer to Ordering Logic chart above.

Approvals: Certified to NRTL and IES testing standards. All components are UL and CUL listed. RoHS compliant.

Environment: Suitable for dry locations.

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

LUMINAIRE WATTAGE AND OUTPUT SPECIFICATION

Light Level	Wattage		Lumens Delivered		Efficacy (LPW)	
	RMEP6	RMEP8	RMEP6	RMEP8	RMEP6	RMEP8
L1	27.3	27.3	3064	3176	112	116
L2	34.8	34.8	3904	4047	112	116
L3	47.7	47.7	5596	5801	117	121
L4	95.5	95.5	10727	11120	112	116

APPROVALS Signature _____

Date _____

FILE NAME: Stail_RMEP_LED_SPEC_SHEET

020315

570 Southgate Drive, Guelph, Ontario N1G 4P6
Mailing Address: P.O. Box 1779 Guelph, Ontario, N1H 6Z9

1.800.621.6785 | T 519.822.4381 | F 519.822.4589
www.metalumen.com

Metalumen

FEATURES

COMMERCIAL // Commercial Lighting - With over 30 years of successful architectural lighting, providing unique concept and installation solutions has become second nature. Metalumen's Start to End Development Process results in unique performance, design and architectural requirements from concept through implementation. Metalumen's Lighting Solutions have been applied to customer projects requiring: high profile architectural installations; improved energy efficiency; retrofit installations; unique installations. Metalumen can provide top-quality innovative fixtures when and where they are needed and, at the same time, allow the customer to determine their level of involvement in Metalumen's Start to End Development Process.

EDULUMEN // Educational Lighting
Edulumen is a collection of premium luminaires that maximize both the functionality and performance of any

educational facility. Based on maximum efficiency, integration of controls and exceptional design, Edulumen will earn high marks for meeting your requirements. Students challenge themselves throughout the day to achieve, and Metalumen is dedicated to this by creating sustainable environments that foster enhanced educational experiences

MetaICE META ICE is a smooth Continuum Optical System with a 91% transmission rate that creates smooth subdued lighting with no source imagery. Meta Ice is a premium lensing optic unique to Metalumen but coupled with a high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen delivery.

META LED boards with a raw efficacy of over 120lm/W, proprietary to Metalumen. A slim LED platform for any of your LED linear application.

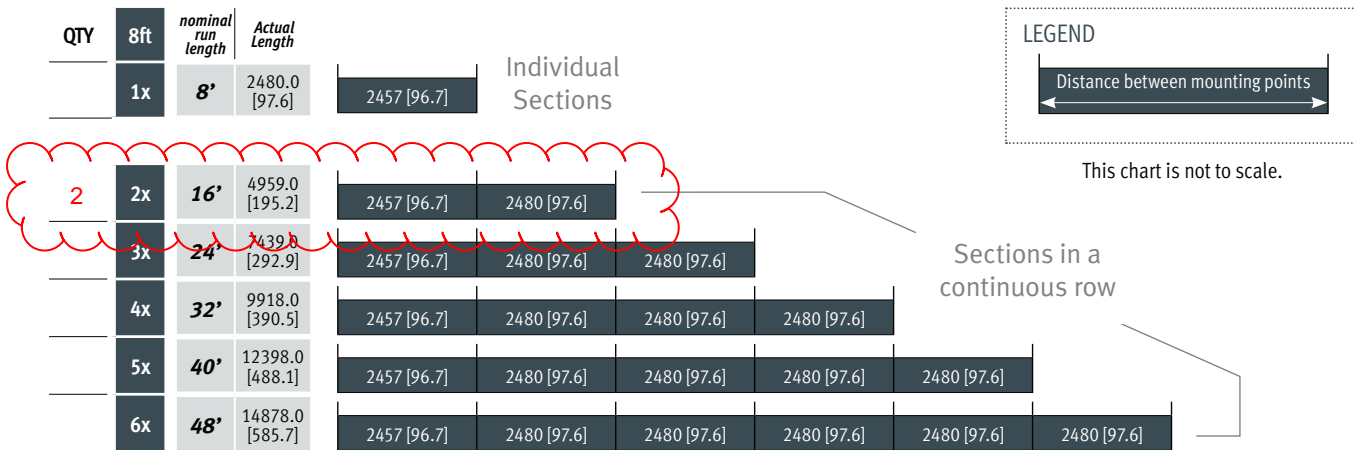
HANGER

Select Hanger Length and Hanger Finish:

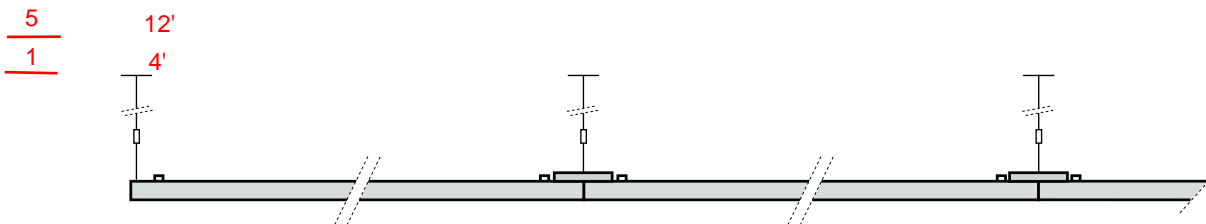
HANGER FINISH	
<input checked="" type="checkbox"/>	White Paint (Standard)
<input type="checkbox"/>	Custom Specify RAL#:

AIRCRAFT CABLE		
Total adjustment range is 6" up & down for each standard length.		
All other lengths are considered custom unless otherwise stated.		
	IMPERIAL (in)	METRIC (mm)
<input checked="" type="checkbox"/>	12	305
<input type="checkbox"/>	18	460
<input type="checkbox"/>	24	610
<input type="checkbox"/>	30	760
<input checked="" type="checkbox"/>	36	915
<input type="checkbox"/>	42	1067
<input type="checkbox"/>	48	1220
<input type="checkbox"/>	54	1372
<input type="checkbox"/>	60	1525
<input type="checkbox"/>	72	1830
<input type="checkbox"/>	96	2440
<input type="checkbox"/>	120	3050
<input type="checkbox"/>	144	3660
<input type="checkbox"/>	Custom length:	

MOUNTING - ROW CONFIGURATION - 8 ft sections



For more configurations, consult factory.



PHOTOMETRIC DATA - 3500K

RMEP6
L3

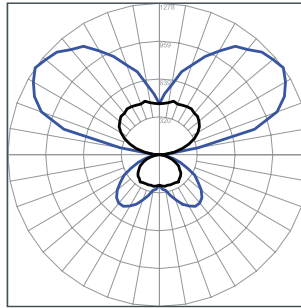
File Name: RMEP6-2L35K-4-M-L3
 Luminaire Lumens: 5596
 Total Watts: 47.8
 Efficacy: 117 lms/W
 Optics Up: Open Top
 Optics Down: Meta Ice

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50				
	RW	70	50	30	10	70	50	30	10	50	30	10	
RCR													
0	102	102	102	102	91	91	91	91	70	70	70		
1	92	88	84	81	82	79	75	73	61	59	57		
2	84	76	70	65	74	68	63	59	53	50	47		
3	76	67	60	54	67	60	54	49	46	42	39		
4	69	59	51	45	61	52	46	41	41	36	32		
5	63	52	44	38	56	46	40	34	36	31	27		
6	58	46	38	33	51	41	34	29	32	27	24		
7	53	41	34	28	47	37	30	25	29	24	20		
8	49	37	30	24	44	33	27	22	26	21	18		
9	46	34	26	21	41	30	24	19	24	19	16		
10	42	31	24	19	38	28	21	17	22	17	14		

PHOTOMETRIC CURVE



LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	1845	2543	3090
55	1843	2407	2746
65	1784	1989	2187
75	1416	1294	1295
85	829	449	398

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	258.05	258.05	258.05	258.05	258.05
5	263.84	252.12	273.59	285.01	291.15
10	271.37	269.49	283.36	300.93	304.77
15	266.84	275.61	311.78	341.84	356.1
20	268.47	285.49	339.4	390.83	403.06
25	269.73	302.73	377.84	436.12	458.04
30	271.16	307.85	401.78	469.23	497.15
35	280.26	322.46	415.54	496.03	529.79
40	262.99	314.47	418.14	502.95	532.63
45	254.22	304.23	404.16	482.94	511.12
50	236.14	281.51	380.1	440.36	463.53
55	208.53	256.42	331.18	388.51	398.49
60	188.3	222.04	285.93	322.18	343.6
65	151.7	177	222.96	256.04	263.37
70	116.78	134.95	166.25	181.68	188.12
75	76.92	92.23	107.64	119.07	119.22
80	46.91	52.53	61.27	64.63	67.7
85	18.22	20.94	23.23	23.44	24.26
90	3.76	2.41	2.18	2.05	2.58
95	48.75	80.22	45.47	44.44	55.11
100	127.99	256.84	388.63	356.93	334.9
105	201.9	396.37	603.02	776.43	834.28
110	264.46	514.23	747.19	959.59	1060.62
115	324.93	601.67	871.56	1072.92	1164.34
120	375.69	653.51	955.59	1139.29	1229.88
125	413.62	680.54	992.14	1195.45	1278.46
130	436.85	683.91	997.53	1177.83	1250.3
135	456.37	683.17	987.86	1145.27	1223.84
140	458.75	682.89	940.71	1130.48	1160.7
145	474.71	649.69	881.76	1057.02	1117.25
150	467.45	631.68	830.86	959.26	1012.63
155	462.95	592.64	757.4	871.42	915.03
160	455.07	556.67	702.47	781.5	805.6
165	468.92	513.15	623.14	697.44	725.12
170	448.12	490.94	545.98	588.3	600.38
175	435.84	451.29	483.03	496.48	515.54
180	429.87	429.87	429.87	429.87	429.87

RMEP8
L3

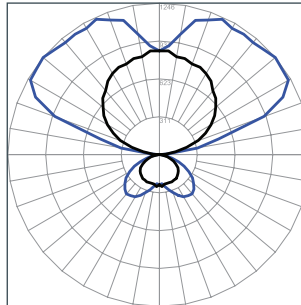
File Name: RMEP8-2L35K-4-M-L3
 Luminaire Lumens: 5801
 Total Watts: 47.8
 Efficacy: 121 lms/W
 Optics Up: Open Top
 Optics Down: Meta Ice

COEFFICIENTS OF UTILIZATION

Zonal Cavity Method
 Effective Floor Cavity Reflectance = .20

RC	80				70				50				
	RW	70	50	30	10	70	50	30	10	50	30	10	
RCR													
0	100	100	100	100	89	89	89	89	67	67	67		
1	91	87	83	80	80	77	74	71	58	56	55		
2	83	75	70	65	73	67	62	58	51	48	45		
3	75	66	59	53	66	59	53	48	44	40	37		
4	68	58	50	44	60	51	45	40	39	35	31		
5	63	51	43	38	55	46	39	34	35	30	26		
6	57	46	38	32	50	41	34	29	31	26	23		
7	53	41	33	28	46	36	30	25	28	23	20		
8	49	37	29	24	43	33	26	22	25	20	17		
9	45	33	26	21	40	30	23	19	23	18	15		
10	42	30	23	19	37	27	21	17	21	16	13		

PHOTOMETRIC CURVE



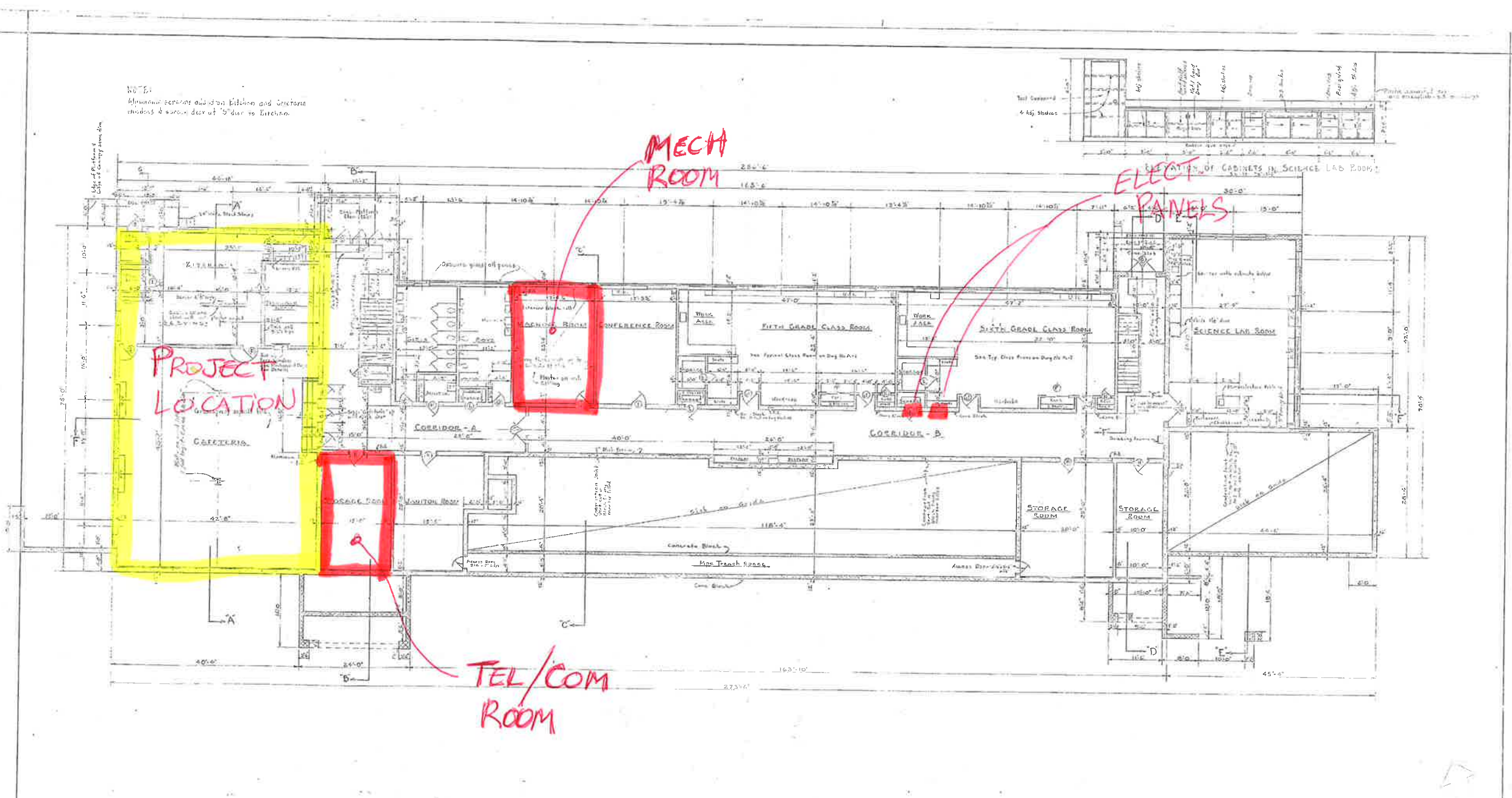
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angle		
	0	45	90
45	1177	1589	1905
55	1235	1554	1828
65	1126	1362	1521
75	970	952	987
85	517	368	370

CANDLE DISTRIBUTION

Vertical Angle	Horizontal Angle				
	0	22.5	45	67.5	90
0	246.74	246.74	246.74	246.74	246.74
5	263.01	242.66	237.58	251.48	238.07
10	244.05	244.83	258.58	261.54	267.14
15	242.64	242.09	275.73	294.62	300.69
20	242.91	251.45	288.18	317.81	329.46
25	245.96	257.83	310.48	348.79	367.04
30	238.94	264.22	321.95	378.34	397.61
35	240.27	268.06	331.17	384.6	411.42
40	227.22	262.27	333.89	390.89	422.05
45	216.9	251.75	326.36	384.31	401.91
50	205.92	242.27	302.6	350.57	369.82
55	186.78	214.25	273.13	316.75	333.32
60	156.18	179.5	229.42	268.96	280.41
65	128.12	151.38	191.81	216.43	225.25
70	100	113.85	140.73	158.64	168.89
75	70.56	78.87	96.72	106.59	107.96
80	41.15	46.07	55.08	61.14	62.61
85	15.27	19.69	21.85	24.51	24.87
90	4.5	3.74	3.94	4.05	4.81
95	51.03	79.65	82.38	75.1	69.8
100	136.51	255.16	265.16	309.73	319.87
105	234.33	414.42	563.6	531.48	504.79
110	341.02	531.78	767.93	892.78	916.69
115	419.16	620.6	880.05	1070.02	1123.41
120	493.01	688.2	955.48	1146.37	1225.5
125	557.08	764.02	989.57	1179.32	1230.84
130	605.24	819	1011.6	1179.01	1245.69
135	656.91	853.61	1049.41	1164.22	1219.62
140	686.23	891.73	1077.27	1155.69	1203.85
145	739.39	892.98	1122.67	1168.16	1208.58
150	769.44	921.2	1120.48	1213	1197.87
155	791.41	919.42	1101.84	1198.67	1227.15
160	793.44	910.46	1047.79	1170.96	1178.12
165	816.62	903.17	1015.76	1088.02	1142.1
170	817.47	876.15	952.08	1006.23	1004.42
175	855.65	849.44	875.05	909.15	897.34
180	852.53	852.53	852.53	852.53	852.53

NOTE:
Minimum ceiling height in kitchen and cafeteria
should be seven feet six inches to eight feet.



Scale 1/8"=1'-0"

GROUND FLOOR PLAN

<p>CYRIL H. HEDRANK & ASSOCIATES Architect - Member - A.I.A. 1800 North Charles Street Baltimore 1, Maryland</p>	<p>DALE E. LLOYD Landscape Architect Suite 4 427 Poplar Road Baltimore 1, Maryland</p>	<p>EWELL, NELSON & DOMHARDT Structural Engineers 1800 North Charles Street Baltimore 1, Maryland</p>	<p>CGLI & MECHANIC ENGINEERS 1001 P. O. Box 100 Baltimore 1, Maryland</p>	<p>REVISIONS</p>	<p>LABORATORY SCHOOL BOWIE STATE TEACHERS COLLEGE BOWIE, MARYLAND</p>
					<p>Drawing No. 67 of 68 Job No. E-55 Date</p>

SUPRAFINE® XL® and ML & SUPRAFINE XL High Recycled Content (HRC) 9/16" Exposed Tee System

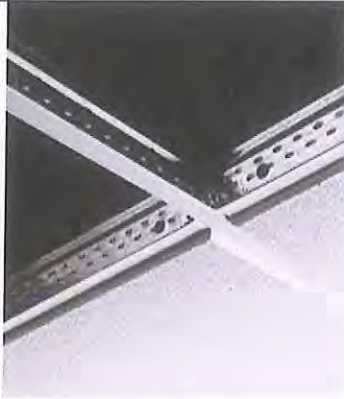


UP TO **63%** RECYCLED CONTENT
armstrong.com/greengenie

LEED®

- construction waste mgmt.
- recycled content
- regional materials*

*LOCATION DEPENDENT



KEY SELECTION ATTRIBUTES

- Selsmic Rx® Suspension System saves time and money; Armstrong offers an ICC-ES approach to installations (ESR-1308)
- PeakForm® profile increases strength and stability for improved performance during installation
- SuperLock™2 main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems



- Cross tees available in ML and XL² (staked-on end detail); provides secure locked connection; easy to remove, reuse, and relocate
- Some items available in metric sizes
- 1-11/16" web height keeps components vertical and stable at light fixture interface
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products
- FastSize™ main beams and cross tees can be ordered with special sizing and route spacing for your project needs in one carton minimums with two week lead times
- Fire Guard™ options offer UL design fire-rated performance

TYPICAL APPLICATIONS

- Offices
- Hospitality
- Healthcare
- Education
- Retail



Blizzard White powder-coated finish coordinates with Calla™, Optima®, Ultima® and Lyra™ ceiling panels for a clean, seamless, monolithic installed visual.



Linear lighting integration is easy with made-to-order main beam-to-cross tee adapters, route spacing, miter spacing, and short cross tees (3" to 6" lengths).



Available in coordinating Colorations™ colors.

VISUAL SELECTION

PERFORMANCE PACKAGING

Item No.♦	Face Profile	Description	Route Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.		Fire Guard™	Selsmic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
					4 Ft.	5 Ft.				
SupraFine XL and SupraFine XL High Recycled Content (Red Numbers are Fire Guard Items)										
<input type="checkbox"/> 7501_♦♦	9/16"	12' HD Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	16.86	10.62	–	•	20	240
<input type="checkbox"/> 7501HRC							–	•	20	240
<input type="checkbox"/> 8501							•	•	20	240
<input checked="" type="checkbox"/> 7500_♦	9/16"	12' ID Main Beam	6" O.C.	144 x 9/16 x 1-11/16"	12.75	5.74	–	–	20	240
<input type="checkbox"/> 8500							•	–	20	240
<input type="checkbox"/> 7502_♦	9/16"	10' ID Main Beam	6" O.C.	120 x 9/16 x 1-11/16"	12.75	5.74	–	–	20	200
<input type="checkbox"/> XL7580_♦	9/16"	8' Cross Tee	12" O.C.	96 x 9/16 x 1-11/16"	12.73**	–	–	•	20	160
<input type="checkbox"/> XL7590_♦	9/16"	6' Cross Tee	12" O.C.	72 x 9/16 x 1-11/16"	12.73**	–	–	•	20	120
<input type="checkbox"/> XL7558_♦	9/16"	5' Cross Tee	6", 20", 30"	60 x 9/16 x 1-11/16"	–	5.80	–	•	60	300
<input type="checkbox"/> XL7541HRC	9/16"	4' Cross Tee	–	48 x 9/16 x 1-11/16"	12.73	–	–	•	60	240
<input type="checkbox"/> XL7540_♦♦	9/16"	4' Cross Tee	12" O.C.	48 x 9/16 x 1-11/16"	10.34	–	–	•	60	240
<input type="checkbox"/> XL8540							•	•	60	240
<input type="checkbox"/> XL7549_♦	9/16"	4' Cross Tee	–	48 x 9/16 x 1-11/16"	16.42	–	–	•	60	240
<input type="checkbox"/> XL7530_♦	9/16"	3' Cross Tee	–	36 x 9/16 x 1-11/16"	–	–	–	•	60	180
<input type="checkbox"/> XL7570_♦	9/16"	30" Cross Tee	–	30 x 9/16 x 1-11/16"	28.67	–	–	•	60	150
<input type="checkbox"/> XL7520_♦♦	9/16"	2' Cross Tee	–	24 x 9/16 x 1-11/16"	51.83	–	–	•	60	120
<input type="checkbox"/> XL7520HRC							–	•	60	120
<input type="checkbox"/> XL8520							•	•	60	120
<input type="checkbox"/> XL7510_♦	9/16"	1' Cross Tee	–	12 x 9/16 x 1-11/16"	51.83	–	–	•	120	120
<input checked="" type="checkbox"/> FastSize™	9/16"	Main beams L: 36" - 144" / Cross tees L: 3" - 144" / Route spacing 2" from ends, 4" thereafter							Varies	Varies

♦ Simple Span
♦♦ Wire at 4"
♦ Items available in Standard, Premium, and Blizzard White powder-coated finish
♦ Items available in Blizzard White powder-coated finish only
When specifying or ordering Colorations, Standard, Premium, and Blizzard White, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

ASTM Class
HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

NOTE: Additional SupraFine XL Items for TechZone Integrated Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486). Available online at armstrong.com/techzone





SUPRAFINE® XL® and ML & SUPRAFINE XL High Recycled Content (HRC) 9/16" Exposed Tee System

VISUAL SELECTION

PERFORMANCE

PACKAGING

Item No.*	Face Profile	Description	Route Spacing	Dimensions (Inches)	Hanger Spacing* Lbs./Lin. Ft.		Fire Guard™ 	Seismic Category 	Pcs./ Ctn.	Lin. Ft./ Ctn.
					4 Ft.	5 Ft.				
Suprafine XL Items for TechZone™ Ceiling Systems										
<input type="checkbox"/> 7504_ _♦	9/16"	120" HD Main Beam	15", 42", 48", 75", 102", 108"	120 x 9/16 x 1-11/16"	12.75	10.62	-	•	20	200
<input type="checkbox"/> 7505_ _♦	9/16"	100" HD Main Beam	2", 26", 50", 74", and 98"	100 x 9/16 x 1-11/16"	-	-	-	•	20	166
<input type="checkbox"/> 7507_ _♦	9/16"	144" HD Main Beam	15", 36", 42", 63", 84", 90", 11", 132", 138"	144 x 9/16 x 1-11/16"	-	-	-	•	20	240
<input type="checkbox"/> 7508_ _♦	9/16"	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 9/16 x 1-11/16"	-	-	-	•	20	220
<input type="checkbox"/> TZXL7556_ _♦	9/16"	56" Cross Tee	-	56 x 9/16 x 1-11/16"	-	-	-	•	60	280
<input type="checkbox"/> XL7564_ _♦	9/16"	54" Cross Tee	6", 27", 48"	54 x 9/16 x 1-11/16"	-	-	-	•	60	270
<input type="checkbox"/> XL7562_ _♦	9/16"	42" Cross Tee	-	42 x 9/16 x 1-11/16"	12.34	-	-	•	60	210
<input type="checkbox"/> XL7528_ _♦	9/16"	28" Cross Tee	-	28 x 9/16 x 1-11/16"	-	-	-	•	60	140
<input type="checkbox"/> XL7561_ _♦	9/16"	21" Cross Tee	-	21 x 9/16 x 1-11/16"	-	-	-	•	60	105
<input type="checkbox"/> XL7506_ _♦	9/16"	6" Cross Tee	-	6 x 9/16 x 1-11/16"	-	-	-	•	60	30
<input type="checkbox"/> XL7504_ _♦	9/16"	4" Cross Tee	-	4 x 9/16 x 1-11/16"	-	-	-	•	60	20
Suprafine ML										
<input type="checkbox"/> ML7540_ _♦	9/16"	4" Cross Tee	-	48 x 9/16 x 1-11/16"	10.34	-	-	-	60	240
<input type="checkbox"/> ML7520_ _♦	9/16"	2" Cross Tee	-	24 x 9/16 x 1-11/16"	51.80	-	-	-	60	120









* Simple Span
♦ Items available in Blizzard White powder-coated finish only
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA - Haze)

ASTM Class
HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

Item No.	Description	Length	(A) Flange	(B) Flange	(C) Flange	Pcs./ Ctn.	Lin. Ft./ Ctn.
Suggested Wall Moldings and Shadow Moldings (Additional molding options available. See catalog pgs. 269-270)							
<input type="checkbox"/> 7808_ _♦	10' Hemmed Angle Molding	120"	2"	2"	-	10	100
<input type="checkbox"/> 7804_ _♦	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	30	360
<input type="checkbox"/> 7804HRC	12' Hemmed Angle Molding	144"	9/16"	7/8"	-	30	360
<input type="checkbox"/> 7835	10' Channel Molding	120"	7/8"	1-3/4"	3/8"	20	200
<input type="checkbox"/> 7873_ _♦	10' Shadow Molding	120"	9/16"	15/16"	3/8"	30	300
<input type="checkbox"/> 7874_ _♦	10' Shadow Molding	120"	9/16"	15/16"	1/4"	30	300
<input type="checkbox"/> 7878_ _♦***	10' Seismic Shadow Molding	120"	15/16"	15/16"	3/8"	30	300

*** Suitable for IBC Category D,E,F installations using Armstrong Seismic Rx® and BERC2 Clip

MAXIMUM FIXTURE WEIGHT

Configuration	Item No.	Fixture		Planning Module		Hanger Spacing		Maximum Weight	
		A	B	A	B	A	B	A	B
Main Beam to Main Beam - Drawing Key: Main beam (↑) Cross tee (-) Hanger wire (+)									
	8500/7500/7502 7501	24" x 48"	24" x 48"	48" x 48"	48" x 48"	48"	48"	73.36 lbs.	57.07 lbs.
		24" x 48"	24" x 48"	48" x 48"	48" x 48"	48"	48"	100 lbs.	70.8 lbs.
	7500/7502 7501	12" x 48"	12" x 48"	48" x 48"	48" x 48"	48"	48"	68 lbs.	44 lbs.
		12" x 48"	12" x 48"	48" x 48"	48" x 48"	48"	48"	85 lbs.	61 lbs.
Cross Tee to Cross Tee - Drawing Key: Main beam (↑) Cross tee (-) Hanger wire (+)									
	XL7540 XL7541 ML7540	24" x 48"	24" x 24"	48" x 48"	48" x 48"	48"	48"	55 lbs.	6 lbs.
		24" x 48"	24" x 24"	48" x 48"	48" x 48"	48"	48"	73 lbs.	84 lbs.
		24" x 48"	24" x 24"	48" x 48"	48" x 48"	48"	48"	65.71 lbs.	76 lbs.
	ML7540 XL7541	24" x 48"	12" x 48"	48" x 48"	48" x 48"	48"	48"	46 lbs.	-
		24" x 48"	12" x 48"	48" x 48"	48" x 48"	48"	48"	52 lbs.	-

Main beams tested as follows: 7500 tested at 12.7 lbs./lin. ft. to 1/360 of 4' span; 7501 tested at 16.86 lbs./lin. ft. to 1/360 of 4' span; 8500 tested at 13.3 lbs./lin. ft. to 1/360 of 4' span. 48" cross tee tested at 10.34 lbs./lin. ft. to 1/360 of 4' span.

Cross tees tested as follows: 48" cross tee tested at 10.34 lbs./lin. ft. to 1/360 of 4' span.

Fixtures weighing more than 56 lbs. should be independently supported. Light fixture clips are required at all fixture locations.

Fixture weight is based on single fixture only. For end-to-end fixtures or other configurations not shown, consult your Armstrong representative.

NOTE: The above data is based on 48" hanger wire spacing, board weight of 1 lb./sq. ft., maximum deflection of tees not to exceed 1/360 of the span, and suspension system installed in accordance with ASTM C636.

** To derive maximum lbs/ft, divide the on-center spacing of the component into the lbs/ft given in the load test data table.

SUPRAFINE® XL® and ML & SUPRAFINE XL High Recycled Content (HRC) 9/16" Exposed Tee System

COLOR AND FINISH SELECTION

Standard



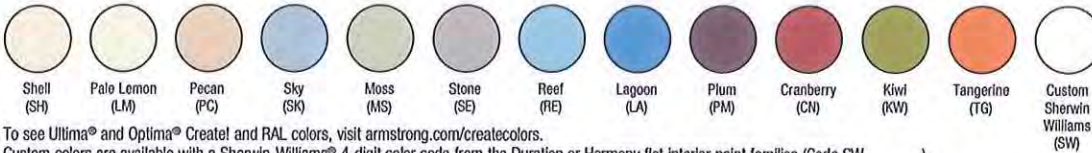
Premium



Powder-coated Finish*



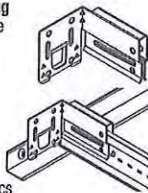
Colorations™ (Coordinates with Calla™ Colorations Panels and Axiom Trim)



To see Ullima® and Optima® Create! and RAL colors, visit armstrong.com/createcolors. Custom colors are available with a Sherwin-Williams® 4-digit color code from the Duration or Harmony flat interior paint families (Code SW _ _ _ _)

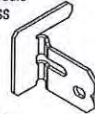
ACCESSORIES

BERC2 – 2" Beam End Retaining Clip – Allows you to create a code compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.



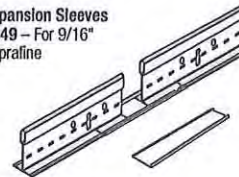
- BERC2 (Steel) – 200 pcs
- FZBERC2 (Steel) – 50 pcs
- ALBERC2 (Aluminum) – 200 pcs
- FZALBERC2 (Aluminum) – 50 pcs

STAC – Single Tee Adapter Clip – Used to create code compliant non-seismic and seismic C and D, E, F off-module main beam to cross tee connections.



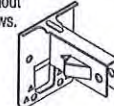
- STAC – 120 pcs
- FZSTAC – 50 pcs

Expansion Sleeves ES49 – For 9/16" Suprafine



- ES49 – 200 pcs
- FZES49 – 50 pcs

GCWA – Grip Clip Wall Attachment – Joins main beam or cross tee to wall molding via locking barbs without pop rivets or screws.



- GCWA – 250 pcs
- FZGCWA – 50 pcs

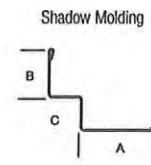
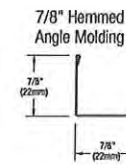
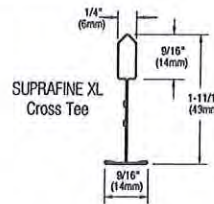
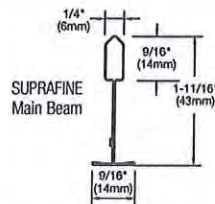
DETAILS



SUPRAFINE XL Cross Tee



SUPRAFINE ML Cross Tee



SEISMIC PERFORMANCE

Main Beams
7501, 7501HRC, 7504, 7505, 7507
Minimum Lbs. To Pull Out Compression/Tension
335.0

Cross Tees
XL7558, XL7540, XL7549, XL7520, XL7510, XL8520, XL7570, XL7590, XL7580, XL8540, XL7541, 753032, 752032, ML7540, ML7520
Minimum Lbs. To Pull Out Compression/Tension
352.0, 130.0

ICC Reports
For areas under ICC jurisdiction, see ICC evaluation report number ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

PHYSICAL DATA

Material
Hot dipped galvanized steel

Surface Finish
Baked polyester paint or powder coated

Face Dimension
9/16"

Profile
Exposed tee

Cross Tee/Main Beam Interface
XL – Override
ML – Flush fit

End Detail
Main Beam: Staked-on clip
XL Cross Tee: Staked-on clip
ML Cross Tee: Staked-on hook clip

Duty Classification
Intermediate or Heavy-duty

NEW

SUPRAFINE® XL® and ML & SUPRAFINE XL High Recycled Content (HRC) 9/16" Exposed Tee System

INTEGRATED SYSTEMS



Calla™ Blizzard White



Colorations™ Reef

BLIZZARD WHITE POWDER-COATED FINISH

Choose the new Blizzard White powder coated finish on a wide variety of suspension systems and Axlom trim, for a clean monolithic installed visual that looks great with Calla™, Lyra™, Optima®, and Ultima® ceiling panels.

COLORATIONS INTEGRATED COLOR SYSTEM

Colorations integrated color system gives you everything you need to create a complete color coordinated ceiling system:

- 13 standard colors, plus custom Sherwin Williams® colors
- 24" x 24" Calla Beveled Tegular panels
- 9/16" Suprafine Suspension System
- Axlom Trim (Classic, Vector, Knife Edge, Moldings and Column Rings)
- Use any Colorations color in a custom Formations cloud kit

TechLine™ / 1 877 ARMSTRONG
1 877 276 7876



armstrong.com/suspensionsystem
BPCS-3077-1014

LEED® is a registered trademark of the U.S. Green Building Council
All other trademarks used herein are the property of AWI Licensing Company and/or its affiliates
© 2014 AWI Licensing Company • Printed in the United States of America





Products › Clips / Connectors › Specialty Clips + Connectors

HANGER WIRE & TIE WIRE

Wire support for drop ceiling assemblies

Hanger Wire is available in 8, 9 and 12 gauge and is galvanized for corrosion resistance. Hanger wire is suspended from the underside of the floor structure to provide a structural support for drop, gypsum wallboard or plaster suspended ceilings.

Tie Wire is 18-gauge galvanized soft annealed wire used in drywall and plaster construction to tie furring channels to main runner U-channels. It's also used to tie metal lath to channels in plaster construction, attach expansion/control joints to lath and tie the lath overlap between rows of fasteners. **18ga tie wire is not recommended for suspension.**

In a drop ceiling assembly U-Channel is suspended from the overhead structure using hanger wire. Drywall furring channel is wire-tied perpendicular to the underside of the U-Channel at appropriate intervals for screw-attaching drywall. Assemblies are installed per the project specification or ASTM C 754 requirements. Wire ties are required for fire-rated and multilayer assemblies.

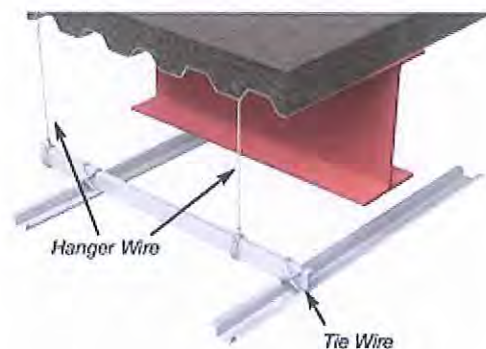
- Available by 50 lbs. hanks (bundles).
- Wire is manufactured in accordance with ASTM A641.
- Regular zinc coating (galvanized).
- Special zinc coatings (e.g. Class 1) are available for certain gauges by special order.
- Tensile range 50,000-65,000 psi.
- Breaking strength for 12ga soft wire is 375 lbs.
 - Recommend a minimum safety factor of 1/4.
 - Maximum recommended load on each wire is 94 lbs.

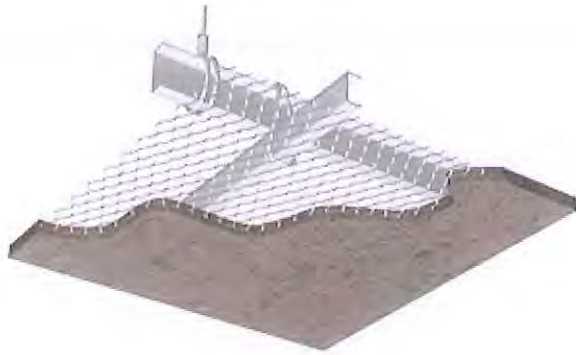


Hanger Wire



Tie Wire





Hanger Wire

Product code	Gauge	Diameter	Length	Feet per Lb.	Wt./Ctn.
HWB8	8	0.162"	12'	14.3	50 lbs
HWB9	9	0.148"	12'	17.1	50 lbs
HW12	12	0.1055"	12'	33.7	50 lbs



Tie Wire

Product code	Gauge	Diameter	Length	Feet per Lb.	Wt./Ctn.
TW18	18	0.047"	30"	166.2	25 lbs

Contact [ClarkDietrich Technical Services](#) at 888-437-3244 for any questions about our Hanger or Tie Wire products.

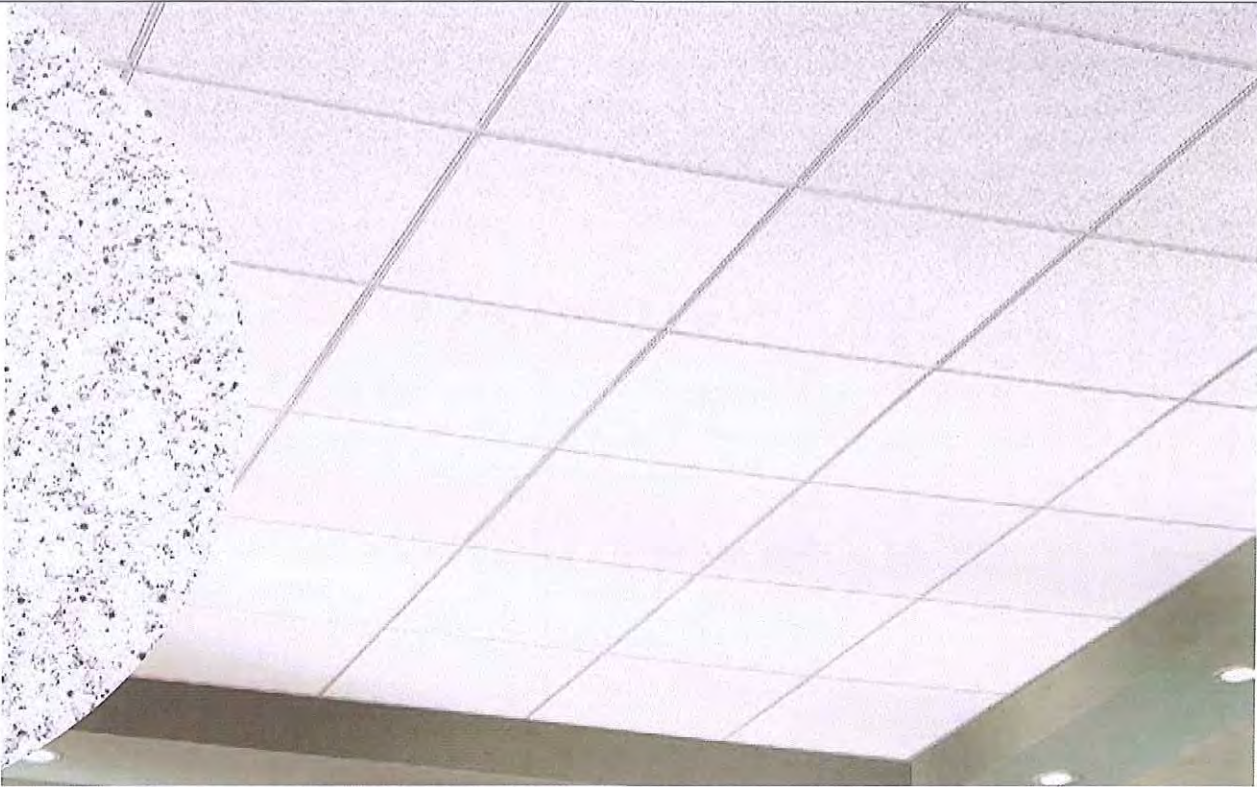
© 2015 Clarkwestern Dietrich Building Systems LLC

[Site Search](#) |
 [Products Sitemap](#) |
 [Locations](#) |
 [Contact Us](#) |
 [Patents & Trademarks](#) |
 [Terms & Conditions](#) |

[View mobile site](#)

CIRRUS® High-NRC

Square Lay-in & Tegular
medium texture



Cirrus High-NRC with Silhouette® 9/16" 1/4" reveal suspension system (Pg. 261)

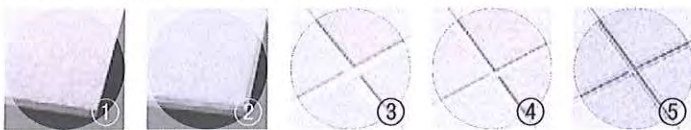
KEY SELECTION ATTRIBUTES

- Refined visual
- Excellent solution in mixed (open plan/closed plan) office design
- Excellent combination of acoustical performance; Articulation Class (170), NRC (0.75), and CAC (35)
- 94% Biobased content (see page 331)

TYPICAL APPLICATIONS

- Open plan and closed offices
- Healthcare – assists in addressing HIPAA and FGI acoustical requirements
- Libraries/media centers
- Lobbies/reception areas
- Computer rooms

DETAIL (Other Suspension Systems compatible. Refer to listing on page 154.)



1. Cirrus High-NRC Square Lay-in
2. Cirrus High-NRC Beveled Tegular
3. Cirrus High-NRC Angled Tegular with Prelude® 15/16" suspension system
4. Cirrus High-NRC Beveled Tegular with Suprafine® 9/16" suspension system
5. Cirrus High-NRC Beveled Tegular with Silhouette 9/16" 1/4" Reveal suspension system

COLOR



White



CIRRUS® High-NRC

Square Lay-in & Tegular

medium texture

UP TO **73%** RECYCLED CONTENT

LEED®

- acoustics
- energy
- daylight & views
- indoor air quality
- renewable materials
- recycled content
- waste mgmt
- local materials




Calculate LEED contribution at armstrong.com/greengenie

*LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE

Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 273-277 armstrong.com/caldwgs	Item No.	Dimensions (Inches)	Acoustics			Fire Rating	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content*	Recycle Program	Warranty†
				NRC	CAC	AC									
CIRRUS High-NRC															
UL Classified				BioBlock+				Humi-Guard+		Yes		No. of Years			
 15/16" Square Lay-in	1	563	24 x 24 x 7/8" □	0.75	35	170	Class A	0.85	•	•	•	Std	High	•	30
	1	565	24 x 48 x 7/8" □	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10
	1	Other Sizes	W: 4" - 24" / L: 4" - 48" 7/8" thick	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10
 15/16" Angled Tegular	13	556	24 x 24 x 7/8" □	0.75	35	170	Class A	0.85	•	•	•	Std	High	•	30
	13	551	24 x 48 x 7/8" □	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10
	13	Other Sizes	W: 4" - 24" / L: 4" - 48" 7/8" thick	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10
 9/16" Beveled Tegular	29, 44, 48, 52, 56, 60	558	24 x 24 x 7/8" □ ✓	0.75	35	170	Class A	0.85	•	•	•	Std	High	•	30
	29, 44, 48, 52, 56, 60	568	24 x 48 x 7/8" □	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10
	29, 44, 48, 52, 56, 60	Other Sizes	W: 4" - 24" / L: 4" - 48" 7/8" thick	0.75	35	170	Class A	0.85	•	Std	•	Std	High	•	10



MINERAL FIBER

SUSPENSION SYSTEMS



PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less. (UL labeled)

ASTM E1264 Classification
Type III, Form 1, Pattern E I C
Fire Class A

Sag Resistance
HumiGuard® Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications. Excludes items 565, 551, 568, and other sizes.

Anti Mold/Mildew & Bacteria
BioBlock® Plus contains an anti-microbial treatment and provides guaranteed resistance against growth of mold/mildew and Gram-positive and Gram-negative odor/stain-causing bacteria for 30 years.

VOC Emissions
Third party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

High Recycled Content*
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Insulation Value
R Factor – 2.3 (BTU units)
R Factor – 0.40 (Watts units)

30-Year Performance Guarantee & Warranty†
When installed with Armstrong Suspension System. Details at armstrong.com/warranty

Weight; Square Feet/Carton
551, 565, 568 – 1.21 lbs/SF; 48 SF/ctn
556, 558 – 1.40 lbs/SF; 40 SF/ctn
563 – 1.33 lbs/SF; 40 SF/ctn

Minimum Order Quantity
1 carton, excludes other sizes

Metric Items Available
558M, 568M, 556M, 561M, 563M, 565M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.



CEILING SYSTEMS

Between us, ideas become reality™

Effective May 2014

Thirty (30) Year Limited Ceiling Systems Warranty ✓

Please read the following terms carefully, as they are affected by the installation conditions. Armstrong does not assume nor does it authorize any person to assume or extend on its behalf any other warranty obligation or liability. This express warranty constitutes the entire obligation of Armstrong World Industries, Inc., and there are no other warranties expressed or implied, including any warranty of merchantability or fitness for any purpose whatsoever.

Products:

ARMATUFF®, CALLA™, CERAMAGUARD® FINE FISSURED™, CIRRUS, Clean Room™ FL, Clean Room VL/VL, CREATE!™, DUNE™, DUNE Second Look®, ENDURA™, FINE FISSURED, FINE FISSURED Open Plan, FINE FISSURED Second Look, GEORGIAN™, GRAPHIS® Finetex™, GRAPHIS® Rustex™, KITCHEN ZONE™ (#673), LYRA™, MESA™, OPTIMA® Open Plan, OPTIMA Plank, OPTIMA Vector®, PAINTED NUBBY™ Open Plan, PEBBLE™, RANDOM FISSURED™, School Zone™ FINE FISSURED, SHASTA®, TUNDRA®, TechZone™, ULTIMA®, ULTIMA Open Plan, ULTIMA Vector, PRELUDE® XL, PRELUDE ML, PRELUDE XL Fire Guard™, PRELUDE PLUS XL Fire Guard, AL PRELUDE PLUS, SS PRELUDE PLUS and PRELUDE XL for Exterior Applications, SUPRAFINE® XL, SUPRAFINE ML, SUPRAFINE XL Fire Guard, 360° Painted, SILHOUETTE® XL 1/4" and 1/8" reveal, AXIOM® (all families), PRELUDE Concealed, CONCEALED Z™, Co-extruded Aluminum CLEAN ROOM™, INTERLUDE®, SONATA®, SERPENTINA® (including Serpentina Metal Infill Panels), TRIMLOK®, DRYWALL, and SHORTSPAN®. (Applies only to products designated with the 30-Year Systems Warranty icon in the product catalog.)

Armstrong Commercial Suspension Systems and Commercial Ceiling products have a 30-year limited systems warranty when installed together and used under normal conditions. Products covered in this systems warranty are outlined above.

Ceiling panels and suspension systems are warranted to be free from defects in materials or factory workmanship for 30 years from the date of installation, except for obvious defects in materials or factory workmanship, of which Armstrong must be notified within 30 days of the date of installation.

Commercial Ceiling panels with HumiGuard® Max and HumiGuard Plus performance are warranted to be free from sagging and warping as a result of defects in materials or factory workmanship for 30 years from the date of installation.

Commercial Ceiling panels with BioBlock® Plus protection are warranted to be free from the growth of mold, mildew, and Gram-positive and Gram-negative odor and stain-causing bacteria for 30 years from the date of installation. Ceiling panels treated with BioBlock Plus on the painted surface contain a mold-inhibiting agent that provides broad-spectrum control for the growth of mold and mildew over the warranty period. The ceiling panels also resist the growth of Gram-positive and Gram-negative odor and stain-causing bacteria. Armstrong HumiGuard Plus fiberglass and HumiGuard Max mineral fiber ceiling panels do not have BioBlock Plus treatment, but are warranted to be free from the growth of mold, mildew, and odor and stain-causing bacteria for 30 years from the date of installation due to the inherent characteristics of the products.

Suspension systems are warranted to be free from the occurrence of 50% red rust as defined by ASTM D610 test procedures for 30 years from the date of installation. All Armstrong limited 30-year warranties are subject to use under normal conditions. Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

What will Armstrong do?

Subject to confirmation by Armstrong of such product failure, Armstrong will deliver, at Armstrong's expense, F.O.B., to the place of installation, new product, of the same or similar type and grade, in an amount equal to that which is determined to be defective.

What does this warranty not cover?

Damage that may occur from vibrations, fire, water, freezing temperature, accident, or any form of abuse or exposure to Abnormal Conditions is not covered by this warranty. If subject to Abnormal Conditions, the products should be removed immediately and replaced once the conditions are normal.

Except for HumiGuard Max products, these products cannot be used in exterior applications.

The ceiling product must not be used to support any other material except fiberglass thermal/sound control insulation installed in the thickness, density, and manner according to Armstrong specifications, except that Mineral Fiber ceiling products can be placed directly on top of Optima Open Plan ceilings where approved by Armstrong (to achieve acoustical performance).

Except for ceilings with BioBlock Plus, HumiGuard Plus fiberglass, and HumiGuard Max mineral fiber, the growth of mold or bacteria is not covered by this warranty nor is it the responsibility of Armstrong. All products should be maintained to avoid excessive dirt or dust buildup or the presence of excessive moisture that would provide a medium for microbial growth on ceiling panels.

THIS EXPRESS WARRANTY CONSTITUTES THE ENTIRE OBLIGATION OF ARMSTRONG AND THERE ARE NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE WHATSOEVER. LIABILITY IS LIMITED TO THAT SET FORTH BELOW AND ARMSTRONG SHALL IN NO EVENT BE LIABLE FOR ANY INSTALLATION OR REMOVAL COST OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR PERSONAL INJURY.

Warranty Conditions

All ceiling products and suspension systems must be installed and maintained in accordance with Armstrong written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32° F (0° C) and 120° F (49° C), and not subject to Abnormal Conditions.

For HumiGuard® Plus: Installation of the products shall be carried out where the temperature is between 32° F (0° C) and 120° F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning. All wet work (plastering, concrete, etc.) must be complete and dry.

For HumiGuard Max: HumiGuard Max's sag performance warranty extends to installations where the ceiling product is exposed to chemical fumes, extreme temperatures up to 120° F (49° C) (including steam up to 275° F (135° C)) and 100% RH, including standing water applications so long as the product is installed with either SS PRELUDE® PLUS, AL PRELUDE PLUS, or PRELUDE PLUS XL® Fire Guard™ suspension systems. For swimming pools, install only with AL PRELUDE PLUS suspension system. For outdoor soffits, canopies, and parking garages, install with PRELUDE XL for Exterior Applications (wind uplift should be considered).

HumiGuard Max and HumiGuard Plus: The ceilings must be maintained to avoid excessive dirt or dust buildup that would provide a medium for microbial growth on ceiling panels. Microbial protection does not extend beyond the treated surface as received from the factory, and does not protect other materials that contact the treated surface such as supported insulation materials.

How do you get service?

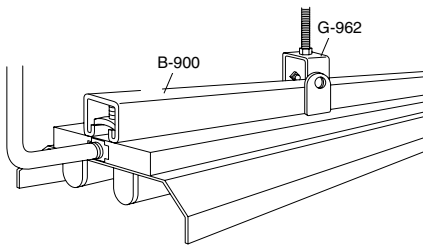
You must notify Armstrong of any product failure covered by this warranty within 30 days of first observation of failure by writing to the following address: Armstrong World Industries, Inc., P.O. Box 3001, Lancaster, PA 17604, or call us at 1 877 ARMSTRONG. Reference to Armstrong in this section shall mean, for the United States, Armstrong World Industries, Inc., P.O. Box 3001, Lancaster, PA 17604; and shall mean, for Canada, Armstrong World Industries, Canada, Ltd., 6911 Decarie Blvd., Montreal, Quebec H3W 3E5.

How does state law apply?

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. Some jurisdictions do not allow exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the limitation or exclusion herein may not apply to you.

Kindorf®

Surface Raceway and Lighting Support Systems



Channel raceway system supports and feeds fluorescent lighting fixtures.

Surface Raceway and Lighting Support Systems

The Kindorf Lighting Support System consists of high quality construction materials that afford definite installation advantages to those most concerned with lighting installations. When used as a Surface Metal Raceway it is U.L. Listed and complies with National Electrical Code Article 352.

To The Owner

A flexible installation requiring fewer attachments to the building structure with built-in provisions for easy maintenance and future modifications when lighting fixtures must be added, deleted or relocated. Kindorf channel and fittings form a strong, economical and attractive support and wiring system for fixtures and other equipment.

To The Architect and Engineer

A system of construction least demanding on general design conditions and readily adaptable to all spacing of pillars, purlins and other structural components. Supply will not delay a job because Kindorf is stocked at many locations throughout the country. The Kindorf System saves planning time because it is designed for fast and easy installation by the contractor with little or no detailing.

To the Contractor

The Kindorf System consists of time saving materials that will simultaneously provide for the electrical feed and the mechanical support of lighting and other equipment. Kindorf affords a means of making fewer attachments to the structure at wider spacing. It insures true and rigid alignment and lends itself to systematic preassembly methods which economize on labor. No special tools for installation and no painting is required. Kindorf speeds all jobs because a complete line of fittings assures easy solution of many installation problems as they arise in the field.

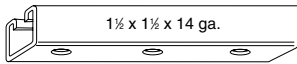
K

Kindorf®

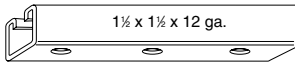
Thomas & Betts

Surface Raceway Channel Systems

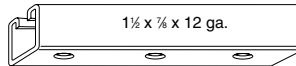
Knock-out type
by means of ½" channel knockouts
on 6" centers



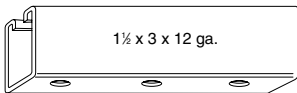
G-975-M



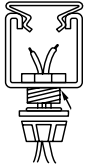
G-975



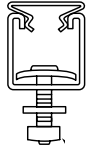
G-965



G-955

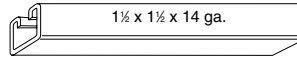


G-972-1/2
Nipple
Lock nut and
bushing

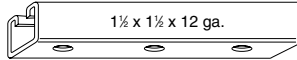


G-974-1-1/4

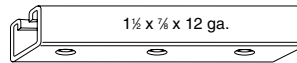
Plug-in type
by means of sliding fixture hanger



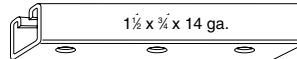
B-900-M



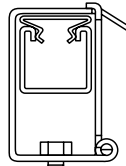
B-900



B-901



B-906



G-1012
Hanger with H-115-A bolt and
square nut plus
G-1016 and H-118-C washers

Electrical Conductors “Lay-In” the Channel

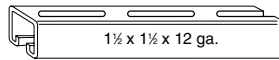
Kindorf Surface Raceway channels provide a central wiring distribution system with conductor capacity that exceeds requirements of any lighting layout and with ‘power to spare’ for other uses. Channel adapts to any interval of structural support – may be dropped to any level where it becomes a rigid platform for fixture attachment. Lighting fixtures may be spaced and fastened anywhere along the channel system with “plug-in” or direct feed electrical connection.

Branch lighting circuit conductors are completely enclosed in channel from panel to fixture eliminating the ordinary “clutter” of external conductors and protecting the wires from physical damage.

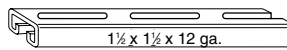
Listed by Underwriters’ Laboratories, Inc.

Channel Support Lighting Systems

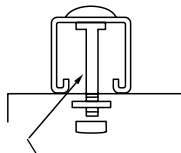
Shoulder bolt type
by means of special shoulder bolt
1/2" x 3" slots on 4" centers



G-953

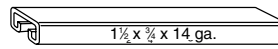


G-956

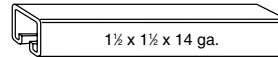


G-973-2-1/4

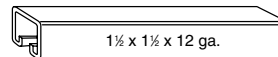
Spring-nut type
by means of spring-nut and bolt combination



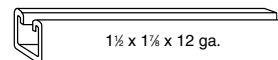
B-906



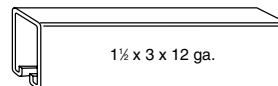
B-900-M



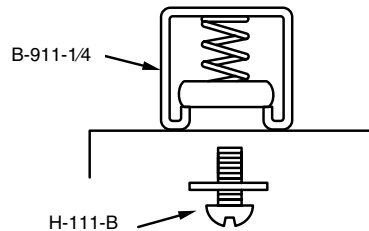
B-900



B-901



B-902

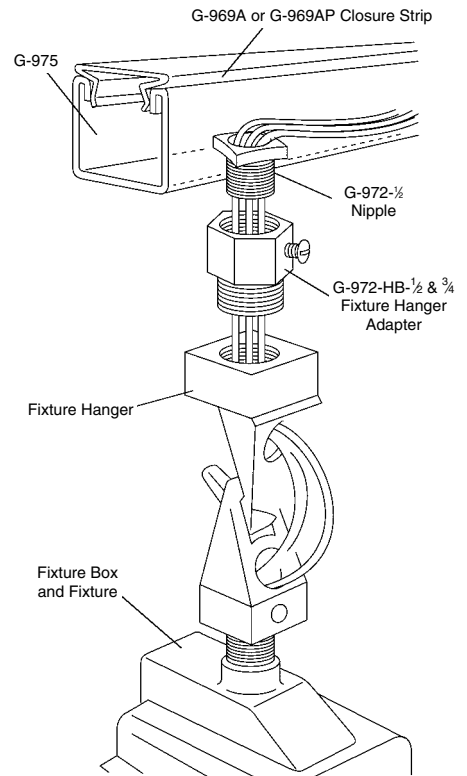
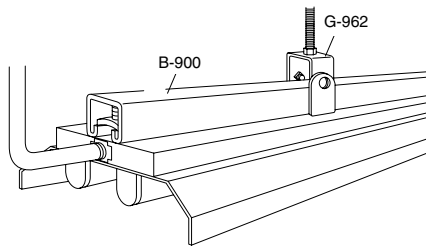
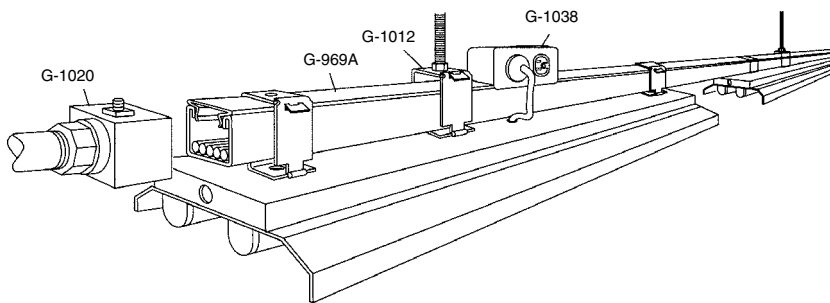
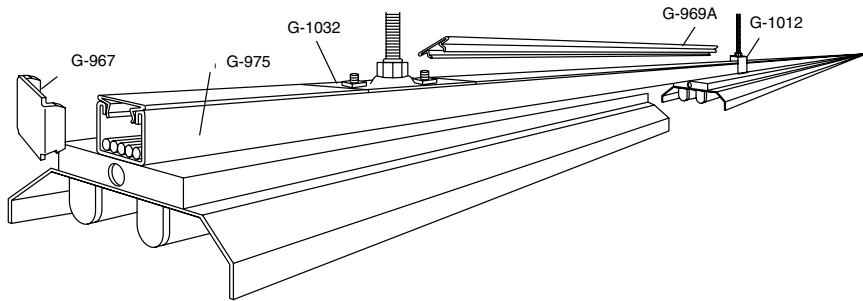


Kindorf channels, installed slot-side down, are designed to provide fixture support only. A range of accessory fittings permit fixture attachment to the channel safely and securely in an approved manner. Channels with solid base or with slots are generally used for simple channel support systems.

Channel support systems combine economy of investment with maximum strength and rigidity. The continuous-slot channel provides complete flexibility of lighting layout with fixture spacing continuous or intermittent. Fixtures may be added or relocated to meet changing requirements without disturbing the basic support system. The rigid channels maintain fixture alignment, adapt to any interval of structural support.

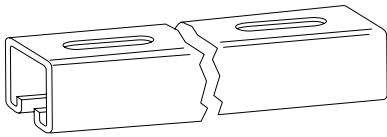
Other mechanical details

For mounting or suspending high intensity lighting fixtures in high bay installations.



Maximum Number of Wires in Raceway

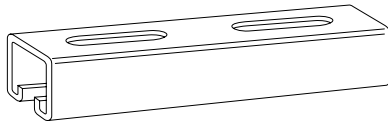
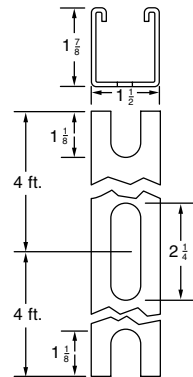
See page K138 and K139 for maximum number of wires in raceway.



G-950 Fixture Hanging Channel

Cat. No.	Description	Joiner
G-950	1½" x 1⅞" x 12 ga.	G-978C

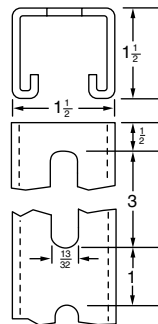
1¼" x 2¼" slots on 4 foot centers
 20 ft. lengths only 194#/C ft.
 Standard finish: Galv-Kröm

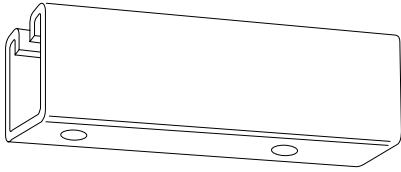


G-953 Fixture Hanging Channel

Cat. No.	Description	Joiner
G-953	1½" x 1½" x 12 ga.	G-958

Fixtures attached to channel of G-973-2-1/4 shoulder bolts. 154#/C ft.
 1⅜" x 3" slots on 4" centers
 Standard finish: Galv-Kröm



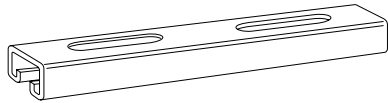
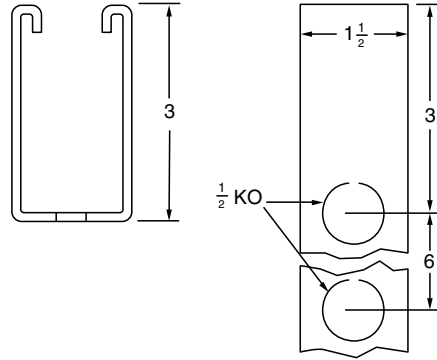


To be used in place of G-975 channel when heavy fixtures are used or supports are on wider spacing.

G-955 Fixture Hanging Channel

Cat. No.	Description	Joiner	End Cap
G-955	1½" x 3" x 12 ga.	G-978-D	G-957 G-959

270#/C ft. UL Listed for raceway.
½" KO's on 6" centers
Standard finish: Galv-Kröm

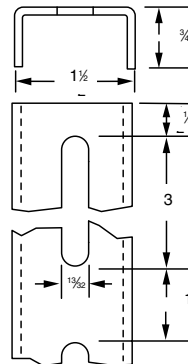


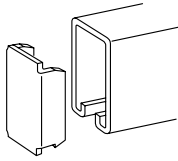
Similar to G-953 channel except it is lighter gauge and only ¾" deep.

G-956 Fixture Hanging Channel

Cat. No.	Description	Joiner
G-956	1½" x ¾" x 14 ga.	G-960

Fixtures attached to channel by means of G-973-1-1/2 shoulder bolts or G-973-2-1/4 fixture bolts. 80#/C ft.
1¾" x 3" slots on 4" centers
Standard finish: Galv-Kröm



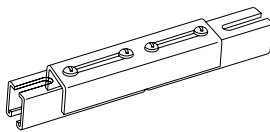
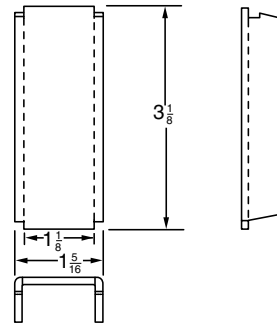


Blank end cap for use with G-955 and B-902 channel.

G-957 End Cap

Cat. No.	Wt. lbs./C
G-957	14

14 ga. steel.
U.L. Listed for raceway.
Galv-Kröm finish

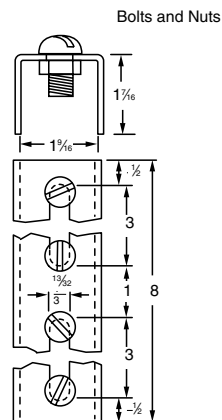


For 1 1/2" deep slotted channel G-953.

G-958 Channel Joiner

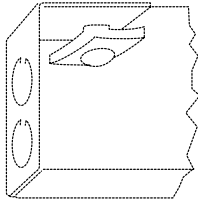
Cat. No.	Wt. lbs./C
G-958	92

Four 3/8" x 3/4" bolts and nuts are furnished with the joiner. 14 ga. steel.
Galv-Kröm finish



Kindorf®

Surface Raceway and Lighting Support Systems



For use with G-955 and B-902 channel.

G-959 End Cap

With Two 1/2 inch Knockouts

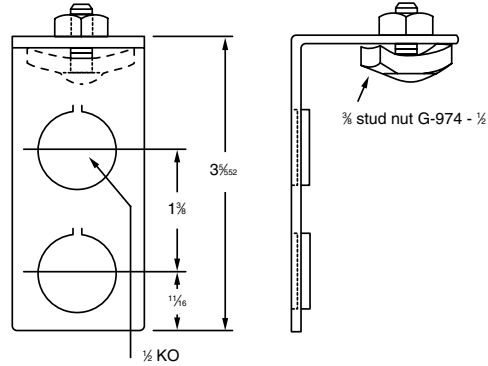
Cat. No.

Wt. lbs./C

G-959

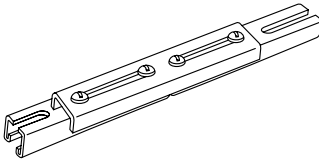
31

12 ga. steel.
U.L. Listed for raceway.
Galv-Kröm finish



K

Kindorf®



For 3/4" deep slotted channel G-956.

G-960 Channel Joiner

Cat. No.

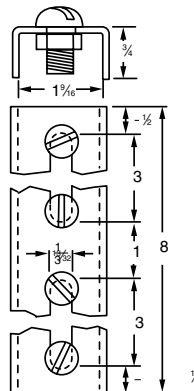
Wt. lbs./C

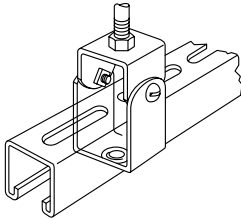
G-960

70

Four 3/8" x 3/4" bolts and nuts are furnished with the joiner. 14 ga. steel.
Galv-Kröm finish

Bolts and Nuts





**G-962 fits around 1½" or 1¾" deep channel.
G-962-D series hangers for 3" deep channel.**

G-962 and G-962-D Channel Hangers

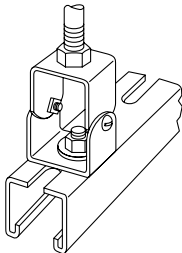
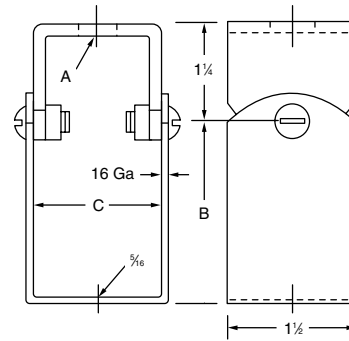
Cat. No.	Wt. lbs./C	Cat. No.	Wt. lbs./C	Hanger Size (in.)	Dim. A (in.)
G-962-1	40	G-962-D-1	47	¼ and ⅜ rod	1⅜
G-962-2	42	G-962-D-2	47	½ rod and ¼ pipe	⅞
G-962-3	39	G-962-D-3	47	⅜ pipe and ⅝ rod	1⅞
G-962-4*	47	G-962-D-4**	47	½ pipe	⅞

* Load rating of 600 lbs. with a safety factor of three.

** Load rating of 700 lbs. with a safety factor of three.

"B" dimension for G-962:2½"; for G-962-D:4". U.L. Listed for raceway. "C" dimension for G-962, 1¾", for G-962-D, 3¾".

Galv-Kröm finish



For use with G-953 or G-956 channel. Does not interfere with fluorescent fixtures.

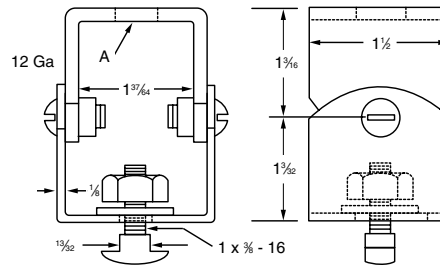
G-963 Channel Hanger

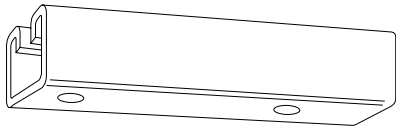
Cat. No.	Hanger Size (in.)	Dim. A (in.)
G-963-1	¼ and ⅜ rod	1⅜
G-963-2	½ rod and ¼ pipe	⅞

Load rating of 900 lbs. with a safety factor of three.

48#/C.

Galv-Kröm finish





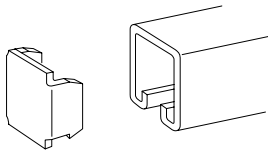
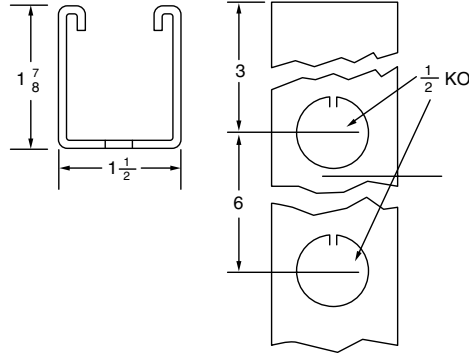
Provides a combination fixture support and surface raceway.

G-965 Fixture Hanging Channel

1½" x 1⅞"

Cat. No.	Description	Joiner	End Cap
G-965	12 ga., 190#/C ft.	G-978-C	6959

U.L. Listed for raceway.
½" knockouts on 6" centers
Standard finish: Galv-Kröm

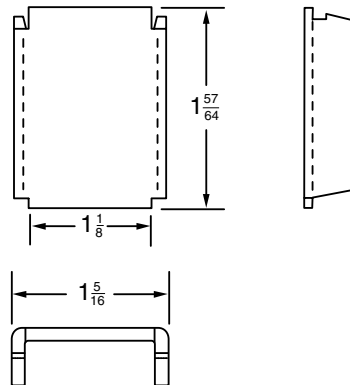


For 1¼" deep channel.

G-966 Blank End Cap

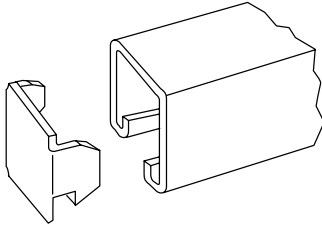
Cat. No.	Wt. lbs./C
G-966	8

U.L. Listed for raceway.
Galv-Kröm finish



K

Kindorf®

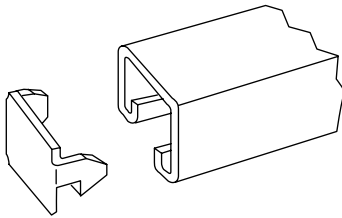
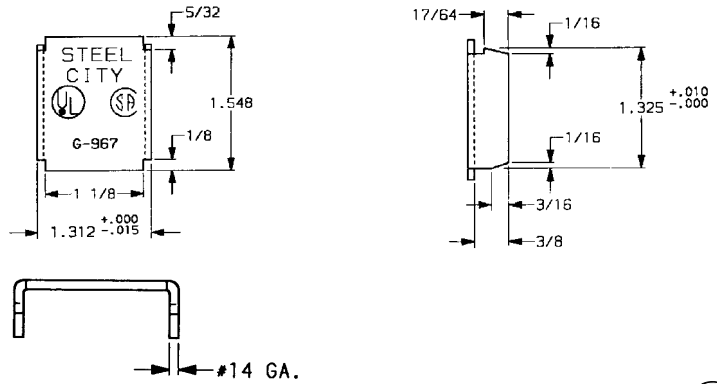


For use with 1/2" deep channel.

G-967 Blank End Cap

Cat. No.	Wt. lbs./C
G-967	6

U.L. Listed for raceway.
Galv-Kröm finish

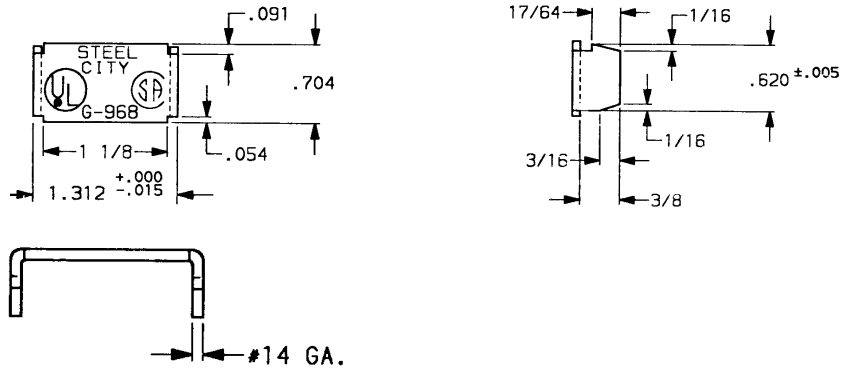


For 3/4" deep channel.

G-968 Blank End Cap

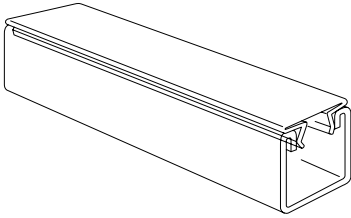
Cat. No.	Wt. lbs./C
G-968	3

U.L. Listed for raceway.
Galv-Kröm finish



K

Kindorf®

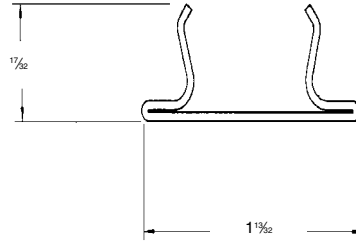


For use with all channel series to complete enclosure.

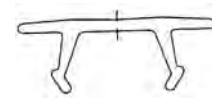
G-969A Closure Strip for New Style Kindorf Channel

Cat. No.	Description
G-969A	Steel Closure Strip – Galv-Kröm finish
G-969AP	Plastic Closure Strip – Gold

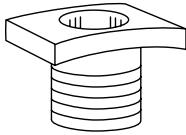
19 ga. steel, 35#/C. U.L. Listed for raceway.



G-969A



G-969AP

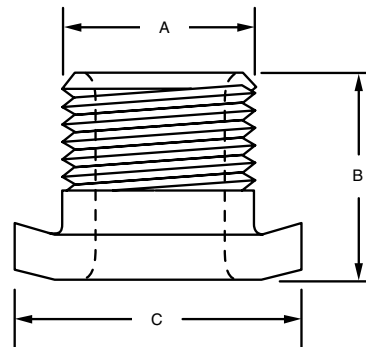


The 1/2" size can nipple fixtures through channel knockouts. All sizes can be fastened to the open slot of all Kindorf channels. Locknut supplied with nipple.

G-972 Nipple Malleable Iron

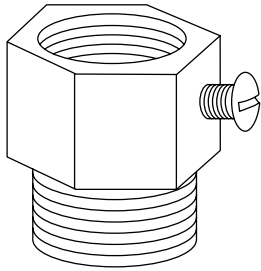
Cat. No.	A	B	C	Wt. in lbs./C
G-972-1/2	1/2" Pipe Size	7/8"	1 1/4"	7
G-972-3/4	3/4" Pipe Size	7/8"	1 1/4"	11
G-972-L-1/2	1/2" Pipe Size	2"	1 1/4"	9

The extra length of the G-972-L-1/2 permits its use as a spacing nipple when locked into knockout or continuous slot. Load rating 750#, with a safety factor of 3. Galv-Kröm finish



Kindorf®

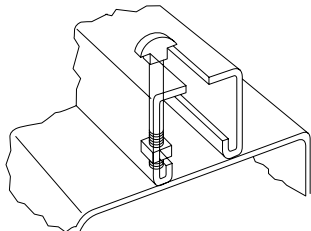
Surface Raceway and Lighting Support Systems



The Fixture Hanger Adapter extends the flexibility of the Kindorf System by easily adapting the 3/4" hanger size of high intensity fixtures to channel mounting.

The hanger adapter securely mounts the fixture hanger or box to the channel through the 1/2" KO in the base. No special tools are needed for installation of fittings and fixtures.

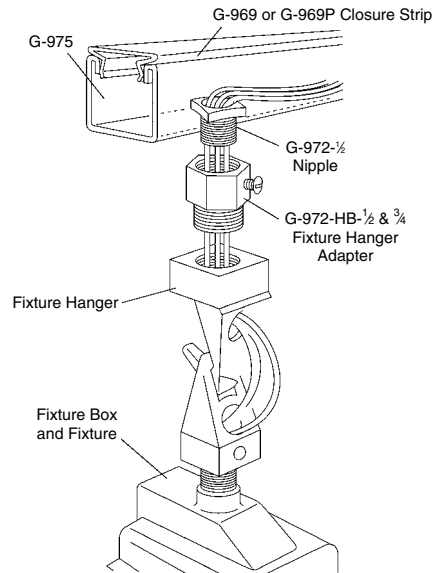
Kindorf channels, with 1/2" KO's every 6", hangs and feeds the fixtures – thus simplifying installation.



For use in fastening fixtures to slotted channels. Permits the preassembly of hardware to the fixture. The head of the G-973 is simply inserted into the channel slot and twisted 90° to seat. The fixture is secured tightly when the nut is run home.

G-972-HB-1/2 Steel Fixture Hanger Adapter

Cat. No.		Wt. lbs./C
G-972-HB-1/2	Galv-Kröm finish	17



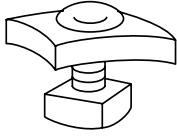
G-973 Shoulder Type Fixture Bolt and Nut

Cat. No.	Used with Channel	Size	Wt. lbs./C
G-973-1-1/2	G-956	3/8 x 1 1/2	7
G-973-2-1/4	G-953	3/8 x 2 1/4	10

Galv-Kröm finish

K

Kindorf®

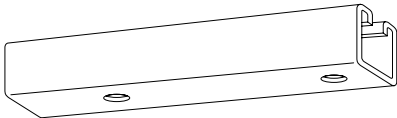
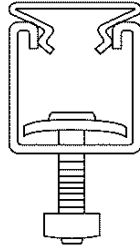


Will fasten fluorescent fixtures to G-975 thru knockouts or to the open slot of all Kindorf channels when installed slot down.

G-974 Fastener

Cat. No.	Size	Wt. lbs./C
G-974-1/2	1/4 x 1/2	8
G-974-3/4	1/4 x 3/4	8 1/2
G-974-1	1/4 x 1	9
G-974-1-1/4	1/4 x 1 1/4	10
G-974-1-1/2	1/4 x 1 1/2	11

Galv-Kröm finish



G-975 Fixture Hanging Channel

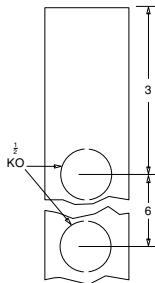
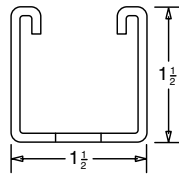
1 1/2" x 1 1/2"

Cat. No.	Description	Joiner	End Cap
G-975	12 ga.	G978A	G967
G-975-M	14 ga.	G1503-S	G979

G-975: 160#/C ft. G-975-M: 107#/C ft. U.L. Listed for raceway.

1/2" knockout's on 6" centers

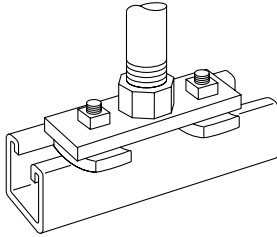
Standard finish: Galv-Kröm



Designed to provide a combination fixture support and surface raceway. Fixture attaches to KO's by G-972-1/2 nipple for wiring, or a G-974 stud nut where wiring is not required.

K

Kindorf®

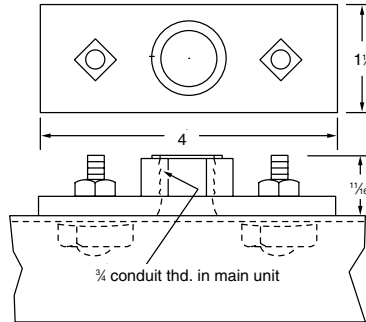


Accepts either 1/2" or 3/4" conduit to feed control channel when used as a combination raceway and lighting fixture support. Includes two stud nuts. Malleable iron.

G-976 Connector

Cat. No.		Wt. lbs./C
G-976	Galv-Kröm finish	54

Load rating 1000# with a safety factor of 3. U.L. Listed for raceway.

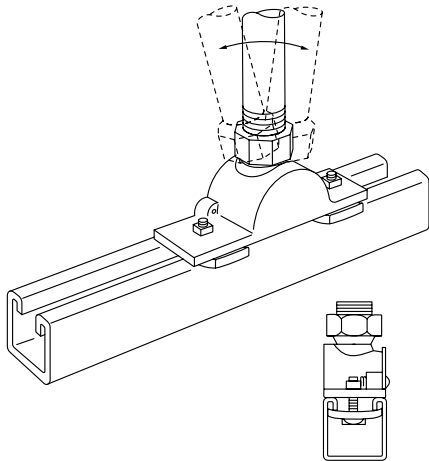


G-977 Swing Connector

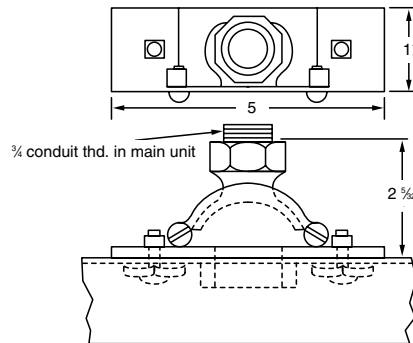
Channel feed hanger

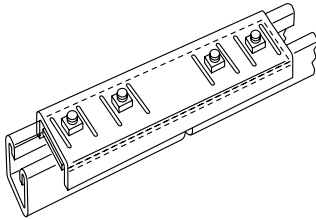
Cat. No.		Wt. lbs./C
G-977	Galv-Kröm finish	130

Includes two stud nuts. Malleable iron. U.L. Listed for raceway. Load rating of 1300 lbs. with a safety factor of three.



Provides a 15° swing in either direction to the channel run. Accepts 1/2" or 3/4" conduit, or may be adapted for use with 3/8" fixture stem when specified.



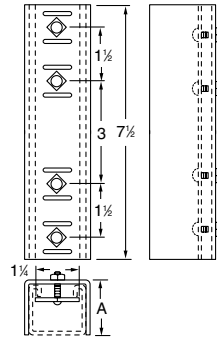


To splice lengths of raceway channel. Installed by tightening nuts on 1/4" studs which are permanently attached to a smooth inner plate.

G-978 Joiners

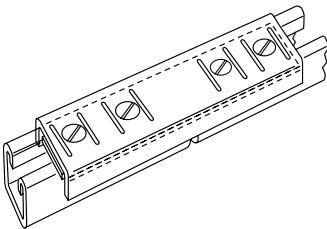
Cat. No.	Type of Channel Applicable	Dim. A (in.)	Wt. lbs./C
G-978	Use with G-975, G-975-M and B-900, B-900-M	1½	107
G-978-L	Use with B-906	¾	87
G-978-D	Use with G-955 and B-902	3	137
G-978-C	Use with B-901, G-950 and G-965	1⅞	122

Nuts included. 14 ga. steel.
U.L. Listed for raceway.
Galv-Kröm finish



K

Kindorf®

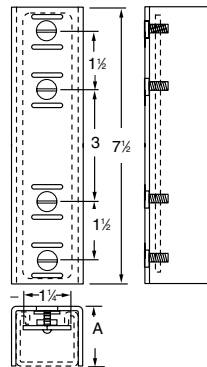


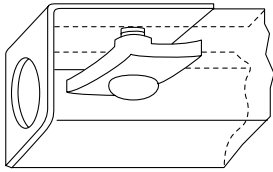
For installations where fixtures are mounted flush to slot-down channels. Fastening is accomplished by tightening flat head machine screws.

G-978-A Joiners

Cat. No.	Type of Channel Applicable	Dim. A (in.)	Wt. lbs./C
G-978-A	Use with G-975, G-975-M and B-900, B-900-M	1½	103
G-978-AL	Use with B-906	¾	83

14 ga. steel.
Galv-Kröm finish



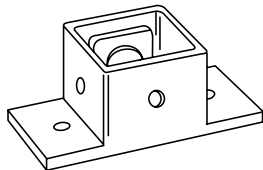
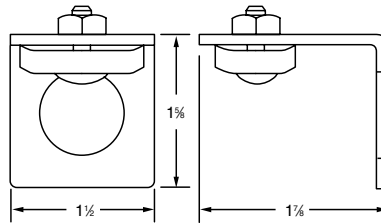


Use with G-975 or B-900 channel to provide conduit entrance.

G-979 End Cap

Cat. No.	Description	Wt. lbs./C
G-979-1/2	For 7/8" hole, 1/2" conduit	25
G-979-3/4	For 1 1/2" hole, 3/4" conduit	25

Furnished with stud nut. 12 ga. steel. U.L. Listed for raceway. Galv-Kröm finish

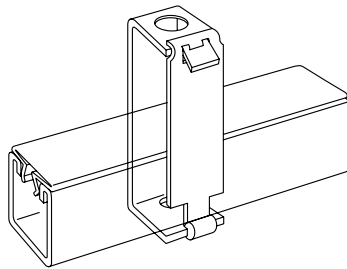
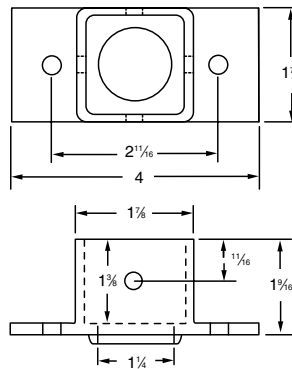


Mounts 1 1/2" x 1 1/2" raceway channel to panel board.

G-1007 Panel Adapter

Cat. No.	Wt. lbs./C
G-1007	36

Complete with stud nuts. U.L. Listed for raceway. Galv-Kröm finish

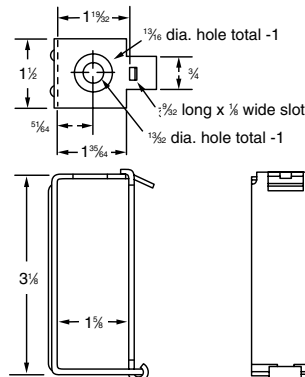


Hinged channel hanger for raceway channel.

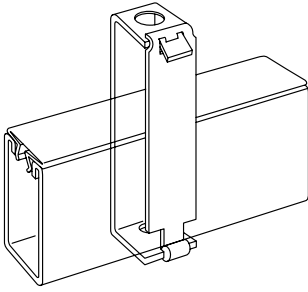
G-1012 "Lay-In" Channel Hanger

Cat. No.	Wt. lbs./C
G-1012	Galv-Kröm finish 33

14 ga. steel. U.L. Listed for raceway. Load rating of 500 lbs. with a safety factor of three.



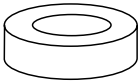
K
Kindorf®



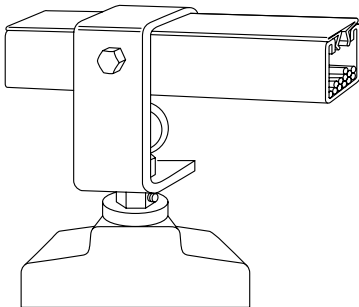
Hinged channel hanger for 3" deep raceway channel.



Two required for each G-1012 channel hanger to provide swivel action.



Use with G-1012 fixture hanger as cushion between fixture and hanger.

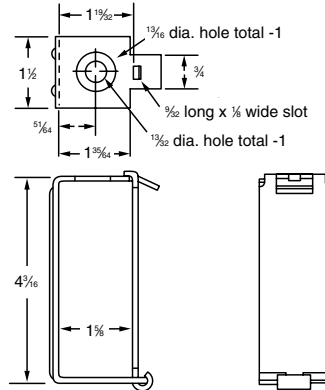


To support high or low bay mercury vapor or heavy incandescent fixtures from raceway channels. Permits plug-in connections with G-1038 raceway outlets.

G-1012-D "Lay-In" Channel Hanger

Cat. No.		Wt. lbs./C
G-1012-D	Galv-Kröm finish	40

14 ga. steel. U.L. Listed for raceway. Load rating of 450 lbs. with a safety factor of three.



G-1013 Hex Swivel Nuts

Cat. No.	Description	Wt. lbs./C
G-1013-3/8	For 3/8" hanger rod	7
G-1013-1/2	For 1/2" hanger rod	7

G-1016 Rubber Washer

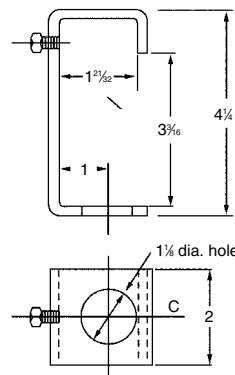
Cat. No.	Wt. lbs./C
G-1016	1

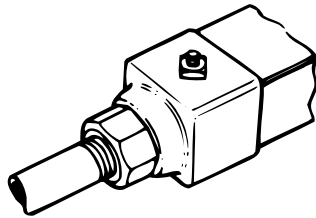
Washers are 1" diameter, 1/4" thick with 5/16" hole.

G-1017 Mercury Vapor Hanger

Cat. No.	Used with Channel	Depth Size	Wt. lbs./C
G-1017	B-900, B-901 G-975 G-965	4 1/4"	76

Galv-Kröm finish



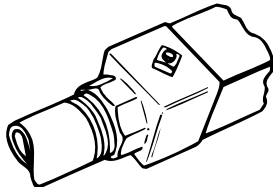
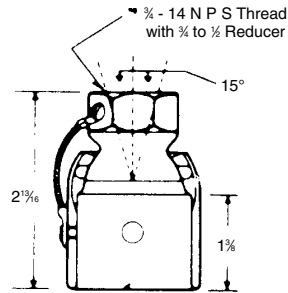


Mounts to 1½" x 1½" raceway channel. Threaded for ¾" conduit or fitting. Swivel action, adapter for ½" conduit furnished.

G-1020 End Swivel Joint

Cat. No.		Wt. lbs./C
G-1020	Galv-Krôm finish	40

U.L. Listed for raceway.

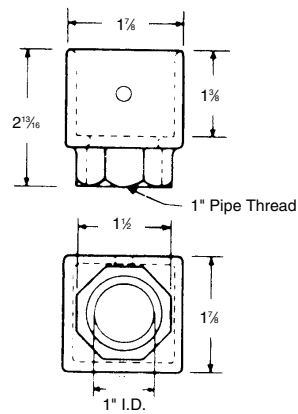


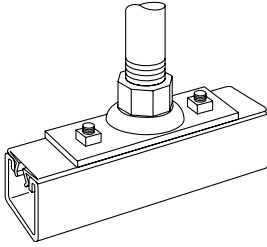
Mounts to 1½" x 1½" raceway channel. Threaded for 1" conduit or fitting. No swivel action.

G-1021 Threaded End Fitting

Cat. No.		Wt. lbs./C
G-1021	Galv-Krôm finish	32

U.L. Listed for raceway.



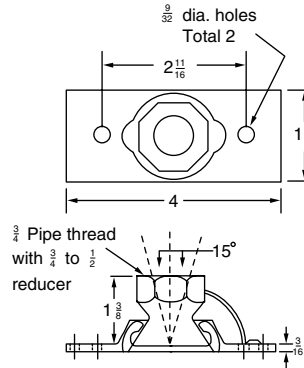


Provides a 15° swivel action (to offset possible movement) for connection of 1/2" or 3/4" conduit to raceway channels. May be accepted for use with 3/8" fixture stem when specified. Order two G-974-3/4" fasteners for channel mounting.

G-1032 Channel Swivel Joint

Cat. No.		Wt. lbs./C
G-1032	Galv-Kröm finish	25

Load rating 500# with a safety factor of 3. U.L. Listed for raceway.



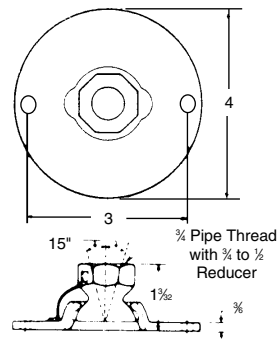
G-1033 4 Inch Diameter Swivel Cover

Cat. No.		Wt. lbs./C
G-1033	Galv-Kröm finish	35

Load rating 400# with a safety factor of three. U.L. Listed for raceway.



Cover for G-2000 through G-2004 junction boxes. Use with 3/4" or 1/2" conduit. Swivel action.



K

Kindorf®

Number	ROOM NAME	FLOOR SUBSTRATE	FLOOR FINISH	BASE SUBSTRATE	BASE FINISH	WALL MATERIAL	WALL FINISH	CEILING MATERIAL	CEILING FINISH	COMMENTS
LEVEL 1										
101	ENTRANCE LOBBY	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
102	FILM ROOM	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
103	FILM STORAGE ROOM	CONCRETE	RF-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
104	CONFERENCE ROOM	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
105	SECURE FILE ROOM	CONCRETE	RF-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
106	CLOSET 1	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
106	RECEPTION DESK	CONCRETE	RF-01	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
107	DIRECTOR'S OFFICE	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		PT-02 Orange on the exterior of Office Walls, see Interior Elevations
107	GUEST SEATING	CONCRETE	CPT-02	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
108	STORAGE ROOM	CONCRETE	RF-01	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
108	MAIN ENTRANCE	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
110	QUIET ROOM	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
111	COPY/PRINTING ROOM	CONCRETE	RF-02	GYP BD	WB-01*	GYP BD	PT-03	ACT		PT-01 Gold on the exterior of Copy Room walls, see Interior Elevations
112	KITCHEN	CONCRETE	RF-02	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	
113	STAFF WORK AREA	CONCRETE	CPT-01	GYP BD	WB-01*	GYP BD	PT-03	ACT		
115	CLOSET 2	CONCRETE	RF-02	GYP BD	WB-01*	GYP BD	PT-03	GYP BD	WHITE PAINT	

Finishes:

CPT-01: Bolyu/Point of View/Orientation PT404/24" x 24"

CPT-02: Bolyu/ AER 25/ High Altitude/ Aerial Map/24" x 24"

RF-01: Armstrong/Imperial Texture/Standard Excelon/51927 Field Gray/12" x 12"

RF-02: Mannington Commercial/Amtico Collection/Shibori Jasmine - Arow7800/6" x 36"

SSUR-01: Zodiaq/Coarse Carrara

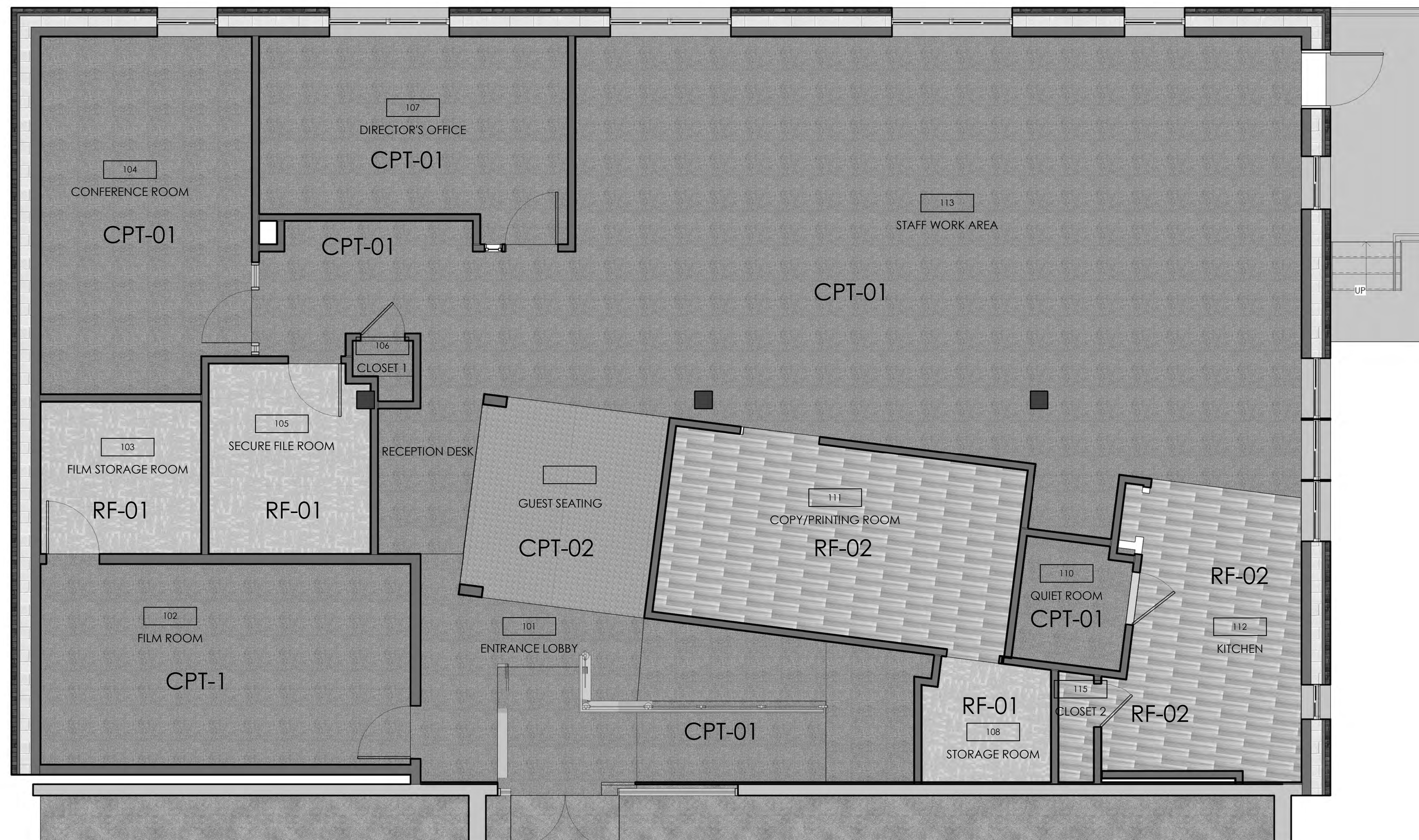
SSUR-02: Zodiaq/Galaxy Black

PLAM-01: Leedo/3D Laminate/Como/White

PT-01: PMS 115 C:1 M:12 Y:94 K:0 R:255 G:217 B:35 #ffd923 (Gold)

PT-02: PMS 152 C:5 M:67 Y:100 K:0 R:234 G:114 B:0 #ea7200 (Orange)

PT-03: Benjamin Moore/Color Preview/White



1 Finish Plan
SCALE: 1/4" = 1'-0"

Robinson Hall Marketing Suite

14000 Jericho Park Road
Bowie MD 20715-9465

Bowie State University

14000 Jericho Park Road
Bowie, MD 20715-9465
Tel. 301.860.4000

95% CD'S	04.30.14	1
100% CD'S	12.09.14	2
Issued for Bid	01.23.15	3

Professional Seal
I certify that these documents were prepared or approved by me and that I am a duly licensed architect under the laws of the State of Maryland, License Number 31124, Expiration Date 01/1/2014.

WDG Project No:
WA12016.11

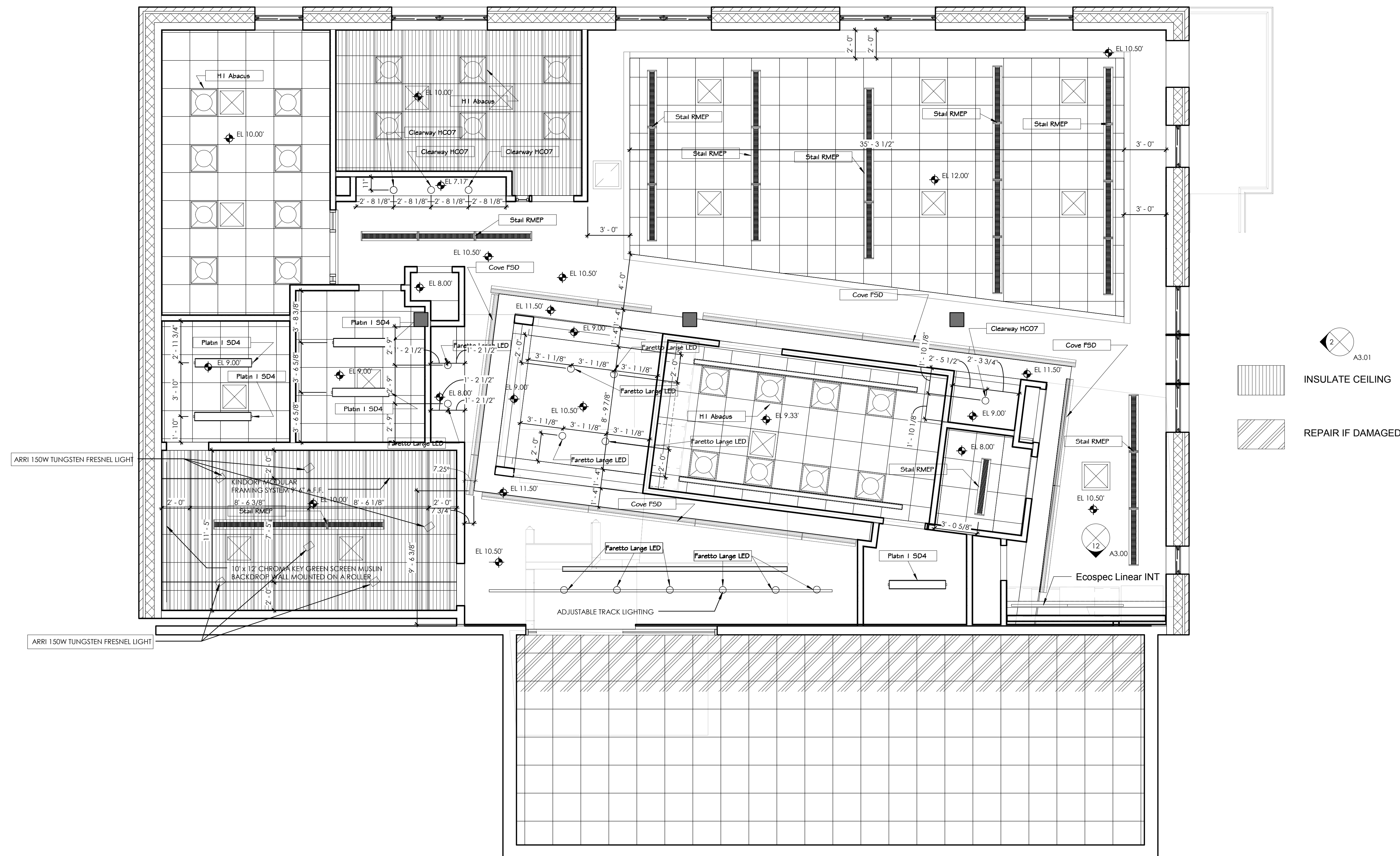
FINISH FLOOR PLAN

SCALE: 1/4" = 1'-0"

A2.21

Lighting Fixture Schedule			
Manufacturer	Model	Description	Count
Metalumen	Clearway HC07	6" recessed light	5
Metalumen	Cove FSD	cove light	16
Systemalux	Faretto Large LED	Track Light	12
A-lights	H1 Abacus	2' x 2' recessed	22
Metalumen	Platin 1 SD4	pendant light	5
Metalumen	Stail RMEP	Pendant with micro prismatic lense	27
ARRI	FRESNEL	150 W Tungsten with Barn Doors	6
Ecosense	Ecospec Linear INT	LCIL 48"	2

NOTE: FILM ROOM AND DESIGNER'S AREA BOX RAIL UPLIGHTS TO BE CR90+



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

Robison Hall Marketing Suite

14000 Jericho Park Road
Bowie MD 20715-9465

Bowie State University

14000 Jericho Park Road
Bowie, MD 20715-9465
Tel. 301.860.4000

95% CD'S	04.30.14	1
100% CD'S	12.09.14	2
Issued for Bid	01.23.15	3

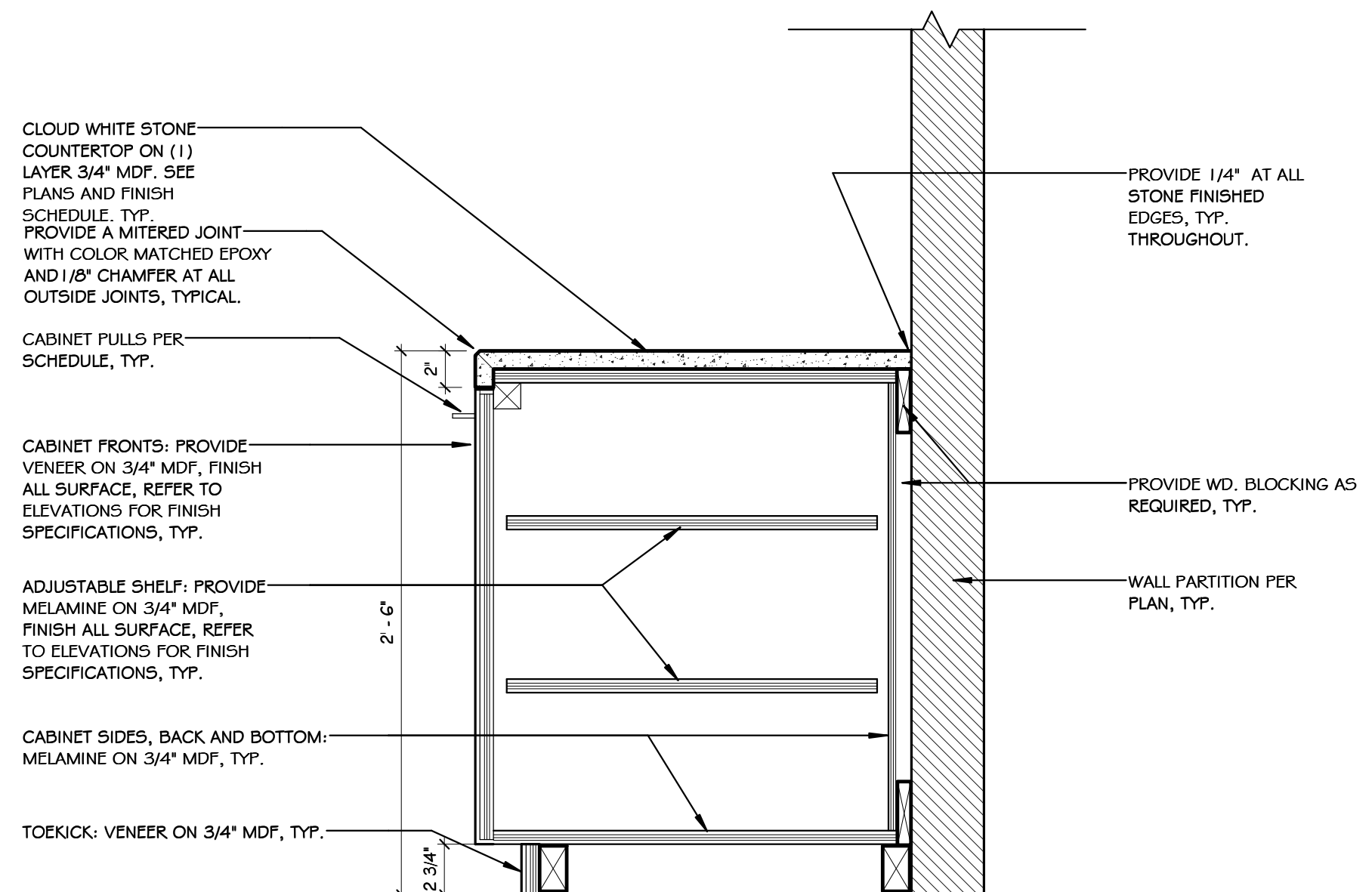
Professional Seal
I certify that these documents were prepared or approved by me and that I am a duly licensed architect under the laws of the State of Maryland, License Number 31124, Expiration Date 01/1/2014.

WDG Project No:
WA12016.11

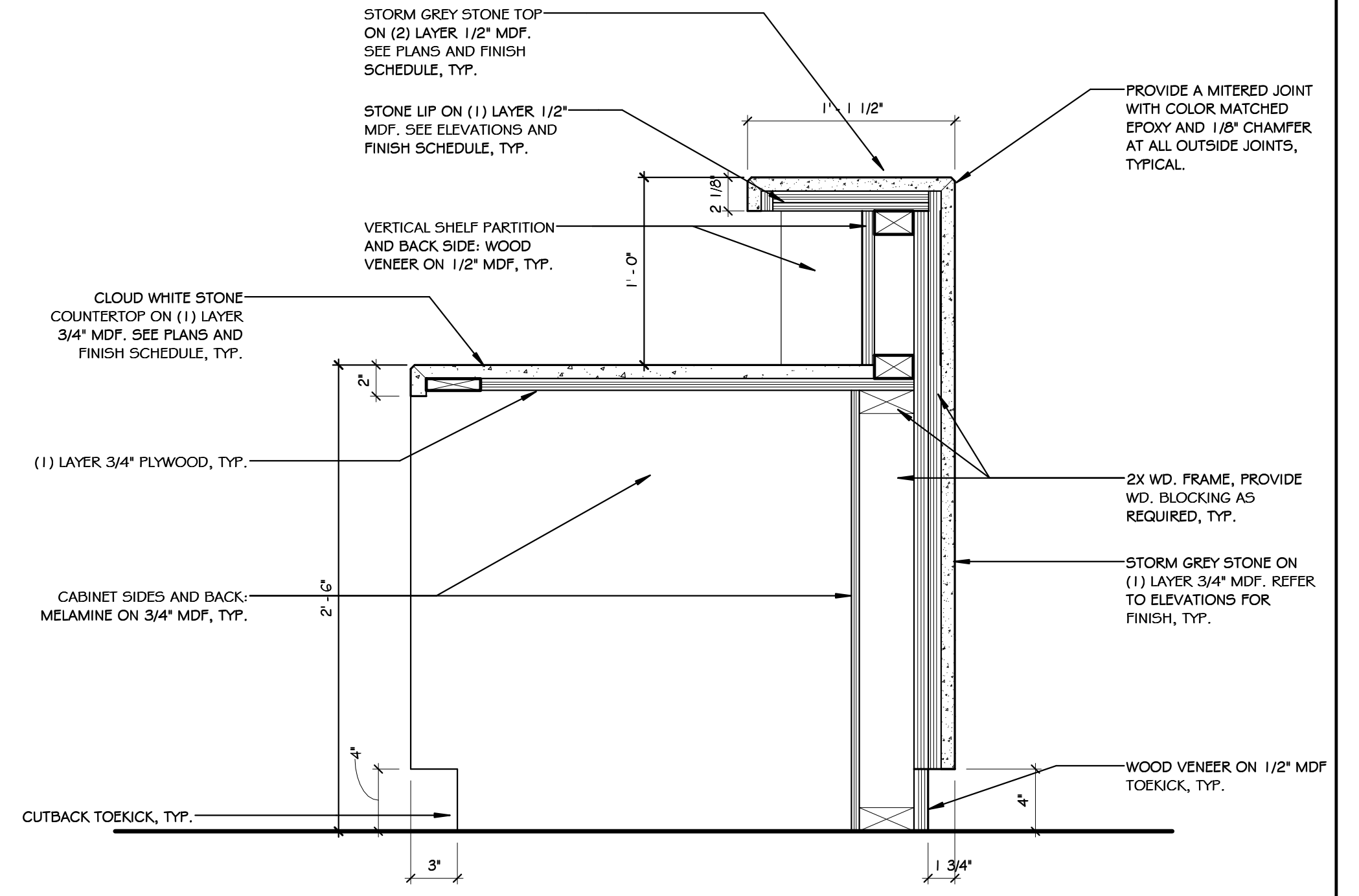
REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

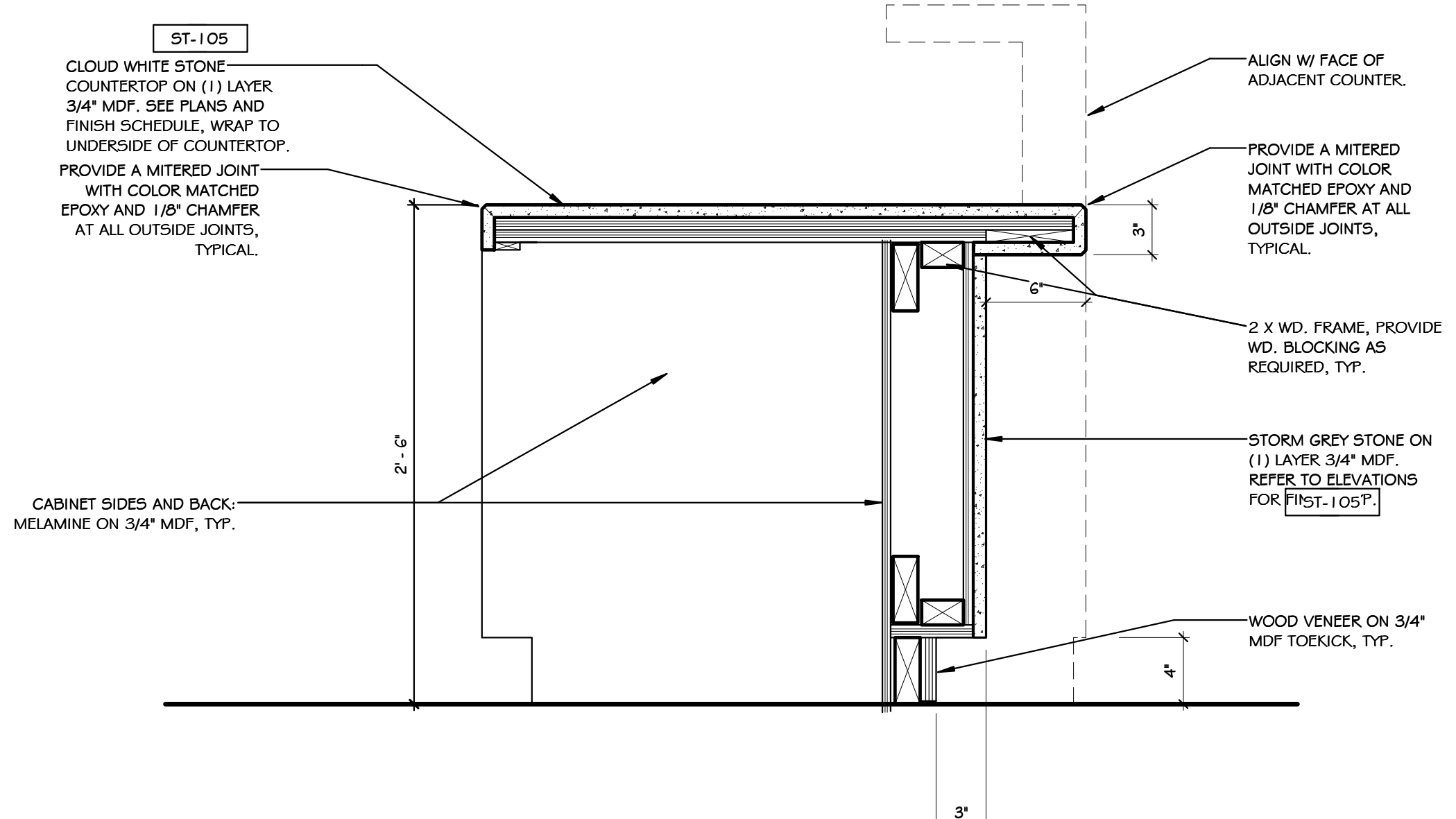
A2.02



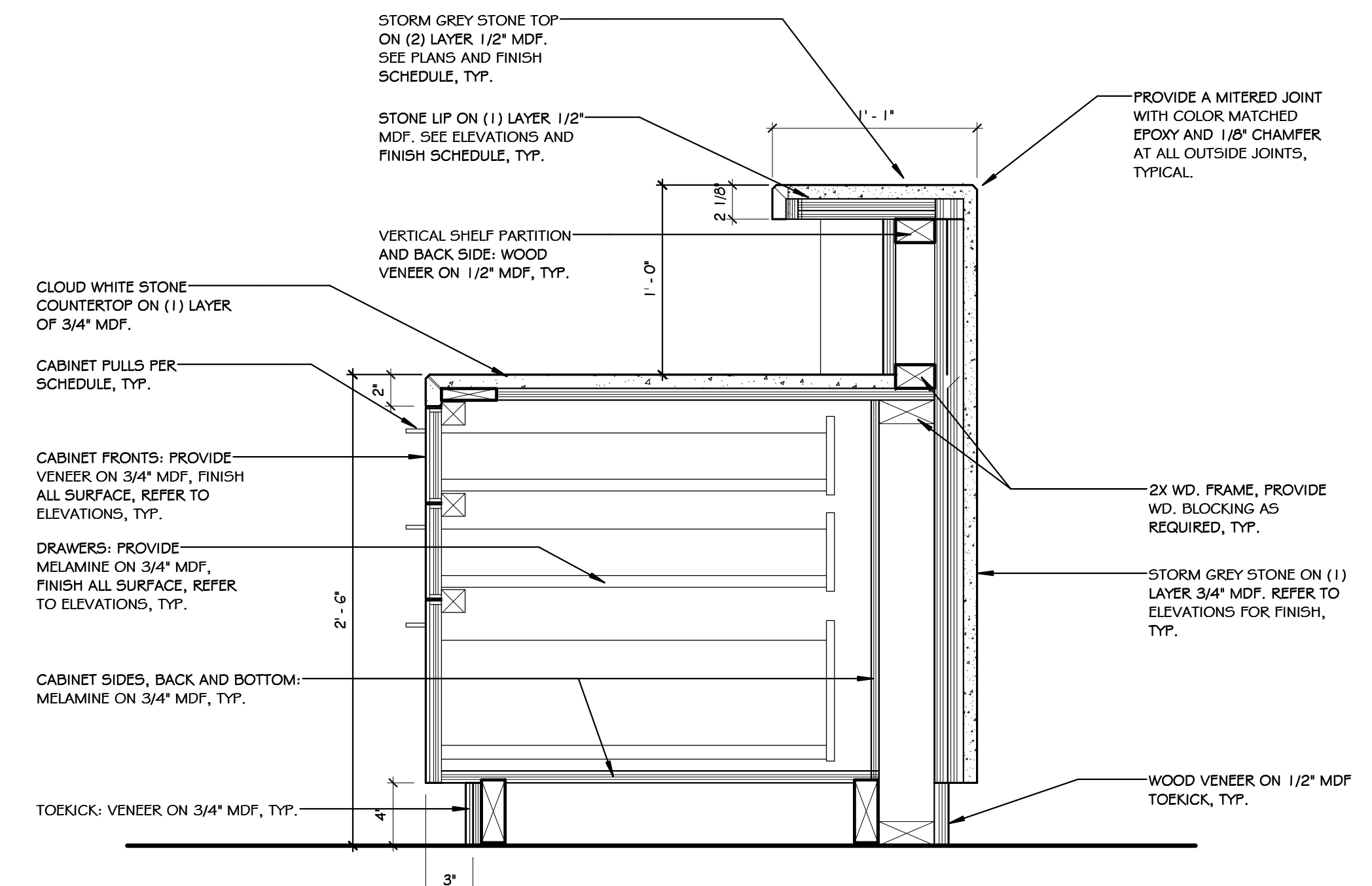
4 Back of Reception
 SCALE: 1 1/2" = 1'-0"



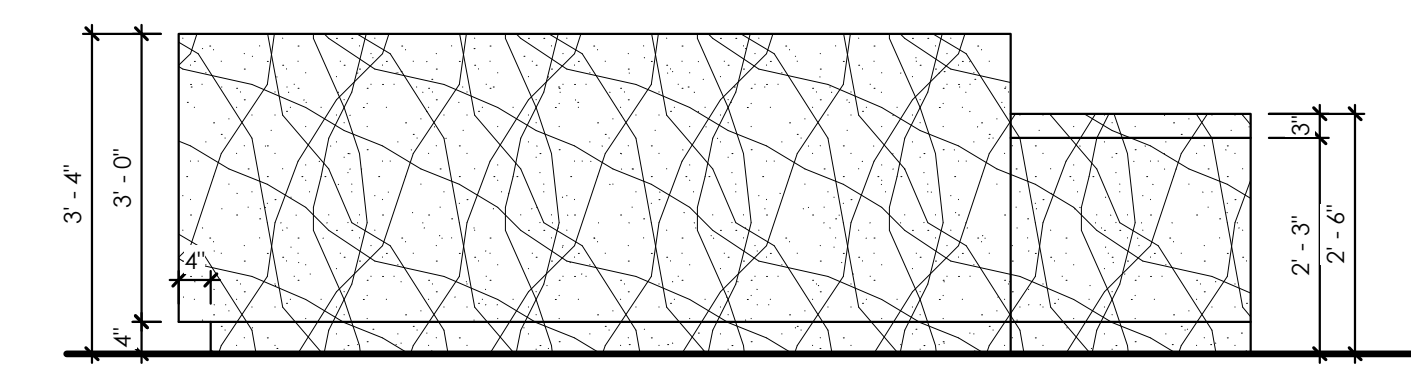
3 RECEPTION COUNTER SECTION
 SCALE: 1 1/2" = 1'-0"



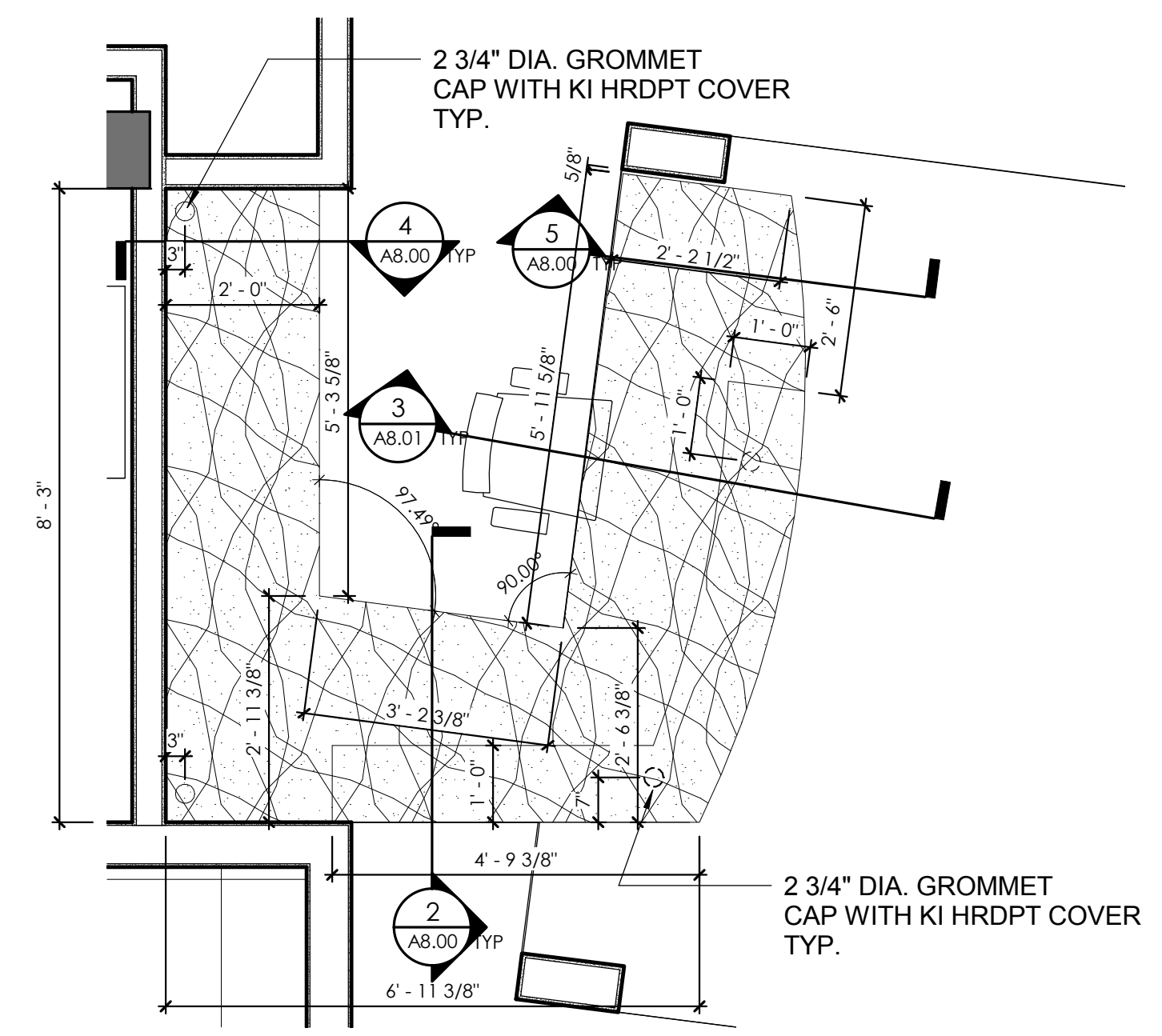
5 RECEPTION ADA ACCESS
 SCALE: 1 1/2" = 1'-0"



2 RECEPTION DESK COUNTER SECTION
 SCALE: 1 1/2" = 1'-0"



6 RECEPTION ELEVATION
 SCALE: 1/2" = 1'-0"



1 RECEPTION DESK PLAN
 SCALE: 1/2" = 1'-0"

100% CD'S	12.09.14	2
Issued for Bid	01.23.15	3

Professional Seal
I certify that these documents were prepared or approved by me and that I am a duly licensed architect under the laws of the State of Maryland, License Number 3112-A, Expiration Date 01.1.2014.