

Project Name

Description

Type

Notes

DESCRIPTION

The **A.24 Driver Enclosure** allows you to have remote drivers for one or several fixtures, up to 8 circuits in constant voltage. The remote driver enclosure is wall mounted and pre-wired for quicker installation in an electrical room or in the same room as the fixtures. It is shipped "ready-to-connect" and the front panel enables simple maintenance and easy wiring with systems. This remote driver enclosure was especially created to hide the feed of one or several A.24 systems.

This item must be ordered with an A.24 System, including fixtures, accessories and **RECESSED REMOTE FEED KIT** available on the **A.24 specification sheet**.




DRIVER BOX

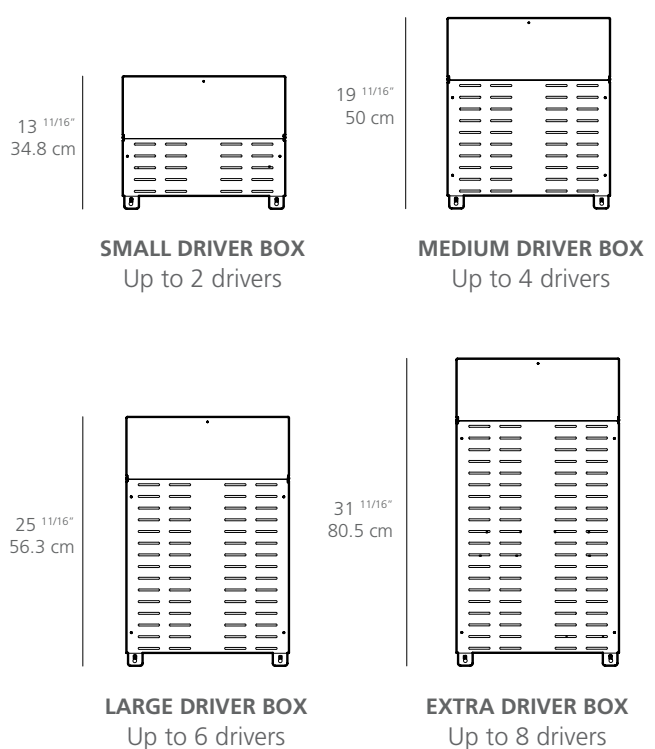
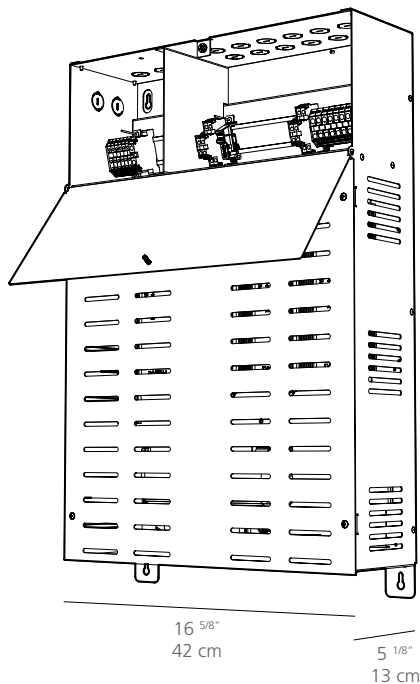
ORDER GUIDE

TYPE	W = wall mounting
CONFIGURATION	296 = 2 drivers 96W (small enclosure) 396 = 3 drivers 96W (medium enclosure) 496 = 4 drivers 96W (medium enclosure) 596 = 5 drivers 96W (large enclosure) 696 = 6 drivers 96W (large enclosure) 796 = 7 drivers 96W (extra enclosure) 896 = 8 drivers 96W (extra enclosure)
INPUT VOLTAGE	08 = 120V / 277VAC UNV
CONTROL TYPE	S1 = 1 circuit ON/OFF* S2 = 2 circuit ON/OFF* S3 = 3 circuit ON/OFF* D1 = 1 circuit 0-10V dimming D2 = 2 circuit 0-10V dimming D3 = 3 circuit 0-10V dimming
COLOR	U = galvanized

*For a multiple control switch system, please select the 2 or 3 circuits ON/OFF option. Please contact factory for emergency or for other configurations.

FEATURES

VOLTAGE OUTPUT	48VDC.
MATERIALS	Galvanized steel.
CONSTRUCTION	The sheet metal driver box is assembled and pre-wired in our factory. The top section is the client access panel, the bottom section is the maintenance access panel. Drivers are pre-installed and pre-wired inside the enclosure. You can have up to 3 dimming or ON/OFF circuits to control your system sections independently.
WEIGHT	Small enclosure : 16.76kg (16.76lbs) Medium enclosure : 7.69kg - 7.78kg (16.96lbs - 17.16lbs) Large enclosure : 7.88kg - 7.97kg (17.37lbs - 17.58lbs) Extra enclosure : 8kg - 8.16kg (17.78lbs - 18lbs)
INSTALLATION	Wall mounting only.
CERTIFICATION	 Suitable for dry locations.



SURGE PROTECTION (OPTIONAL)

Surge protectors can protect your devices from external voltage fluctuations according to IEE C62.41.2 C high (20KV AND 20kA) and to ensure years of continuous operations. It provides protection for neutral-line, ground-line and neutral-ground connections. The surge protection device is installed between the line voltage terminal and the driver to provide system wide protection.

ORDER GUIDE

TYPE	SU = surge protection
WATTAGE DRIVERS	96 = 96W
INPUT CIRCUIT	1 = 1 circuit driver enclosure* 2 = 2 circuits driver enclosure* 3 = 3 circuits driver enclosure*

*Indifferently ON/OFF and 0-10V dimming circuit.

FEATURES**INSTALLATION**

When the surge protection is ordered, it is already installed and pre-wired in the driver enclosure.

CERTIFICATION

Suitable for dry locations.

COMPOSE A DRIVER ENCLOSURE

To compose an **A.24 Driver Enclosure** you must follow guidelines below about wattage, circuits, etc.

1. SPLIT THE SYSTEM INTO 96W PARTS

Before ordering the driver enclosure it's necessary to calculate how many fixtures can be supported by one driver. Please refer to the table below to see A.24 Wattage and compose the driver enclosure adapted to your system. The total load cannot exceed 96W for each driver.

A.24 LINEAR	4FT DIRECT	4FT DIRECT + INDIRECT	8FT DIRECT	8FT DIRECT + INDIRECT	CORNER DIRECT	SMALL CURVE 60°	SMALL CURVE 90°	BIG CURVE 45°	BIG CURVE 90°
DIFFUSED	33W	49W	66W	66W + 32W* needs to be fed by two drivers	16W	16W	24W	16W	33W
SHARP	22W	38W	45W	77W	-	11W	11W	11W	22W
MAGNETIC	-	16W for the indirect light	-	33W for the indirect light	-	-	-	-	-

*The A.24 linear diffused 8FT DIR/IND module is the only case in the standard offer that needs and allows 2 feed wires.

MAGNETIC VECTOR PROJECTORS

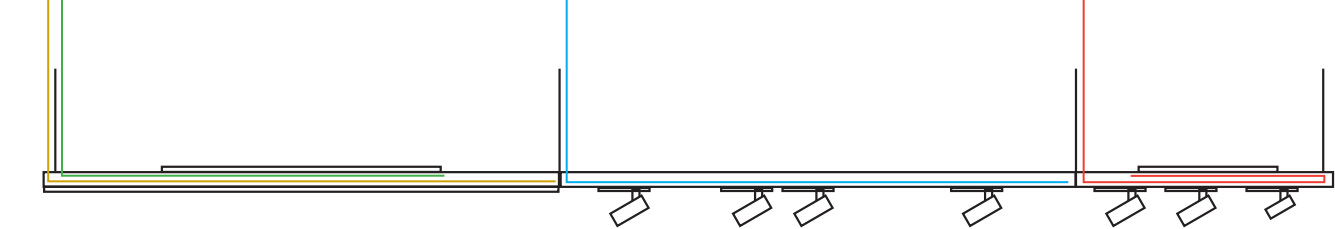
Ø 40	Ø 55	Ø 55 ZOOM
10W each	26W each	23W each

DRIVER 1 (Total load of 75W)

DRIVER 2 (Total load of 92W)

DRIVER 3 (Total load of 32W)

DRIVER 4 (Total load of 66W)



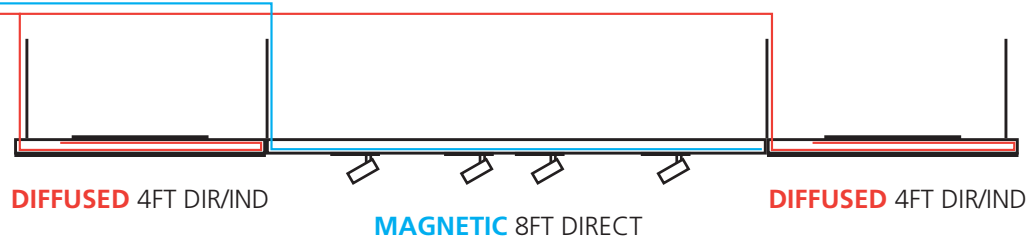
<u>A.24 LINEAR DIFFUSED 8FT DIR/IND</u> 32W (INDIRECT) + 66W (DIRECT) = 32W < 96W on DRIVER 3 66W < 96W on DRIVER 4	<u>A.24 LINEAR MAGNETIC 8FT DIRECT</u> 0W (TRACK) + 4x 23W (VECTORS Ø55Z) = 92W < 96W on DRIVER 2	<u>A.24 LINEAR MAGNETIC 4FT DIR/IND</u> 16W (INDIRECT TRACK) + 10W (VECTORS Ø40) + 26W (VECTORS Ø55) + 23W (VECTORS Ø55Z) = 75W < 96W on DRIVER 1
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MEDIUM DRIVER ENCLOSURE
4 DRIVERS OF 96W

2. USE DEDICATED DIMMING FOR EACH TYPE

If you choose the 0-10V dimming option, please make sure that there is only one emission type per dimming circuit. Diffused, shaping and magnetic fixtures are not allowed on the same dimming circuit. You must control each type with a dedicated dimming circuit.

0-10V dimming circuit 1
0-10V dimming circuit 2



3. ALLOW LESS THAN 65 ADDRESSES ON A DIMMING CIRCUIT

Each fixture and electrically fed connector has one or more nodes. A node could be one spot or one LED board. The A.24 dimming can be connected with up to 64 nodes. In this condition you can merge two or more driver enclosures on the same 0-10V dimming circuit as long as the nodes' total does not exceed 64.

NUMBER OF NODE PER FIXTURE

	4FT DIRECT	4FT DIRECT + INDIRECT	8FT DIRECT	8FT DIRECT + INDIRECT	CORNER DIRECT	SMALL CURVE 60°	SMALL CURVE 90°	BIG CURVE 45°	BIG CURVE 90°
DIFFUSED	1 NODE	2 NODES	2 NODES	3 NODES	1 NODE	1 NODE	1 NODE	1 NODE	1 NODE
SHARP	1 NODE	2 NODES	2 NODES	3 NODES	-	1 NODE	1 NODE	1 NODE	1 NODE
MAGNETIC	1 NODE	2 NODES	2 NODES	3 NODES	1 NODE	-	-	-	-
PROJECTOR	1 NODE								

4. FOLLOW THE MAXIMUM OF VECTORS WICH FITS IN A MAGNETIC TRACK

MAGNETIC VECTOR PROJECTORS	Ø 40	Ø 55	Ø 55 ZOOM
# allowed on 4FT direct track by Wattage	4	3	4
# allowed on 4FT dir/ind track by Wattage	4	3	3
# allowed on 8FT direct track by Wattage	9	3	4
# allowed on 8FT dir/ind track by Wattage	6	2	2

5. DISTANCE FROM THE FIXTURE

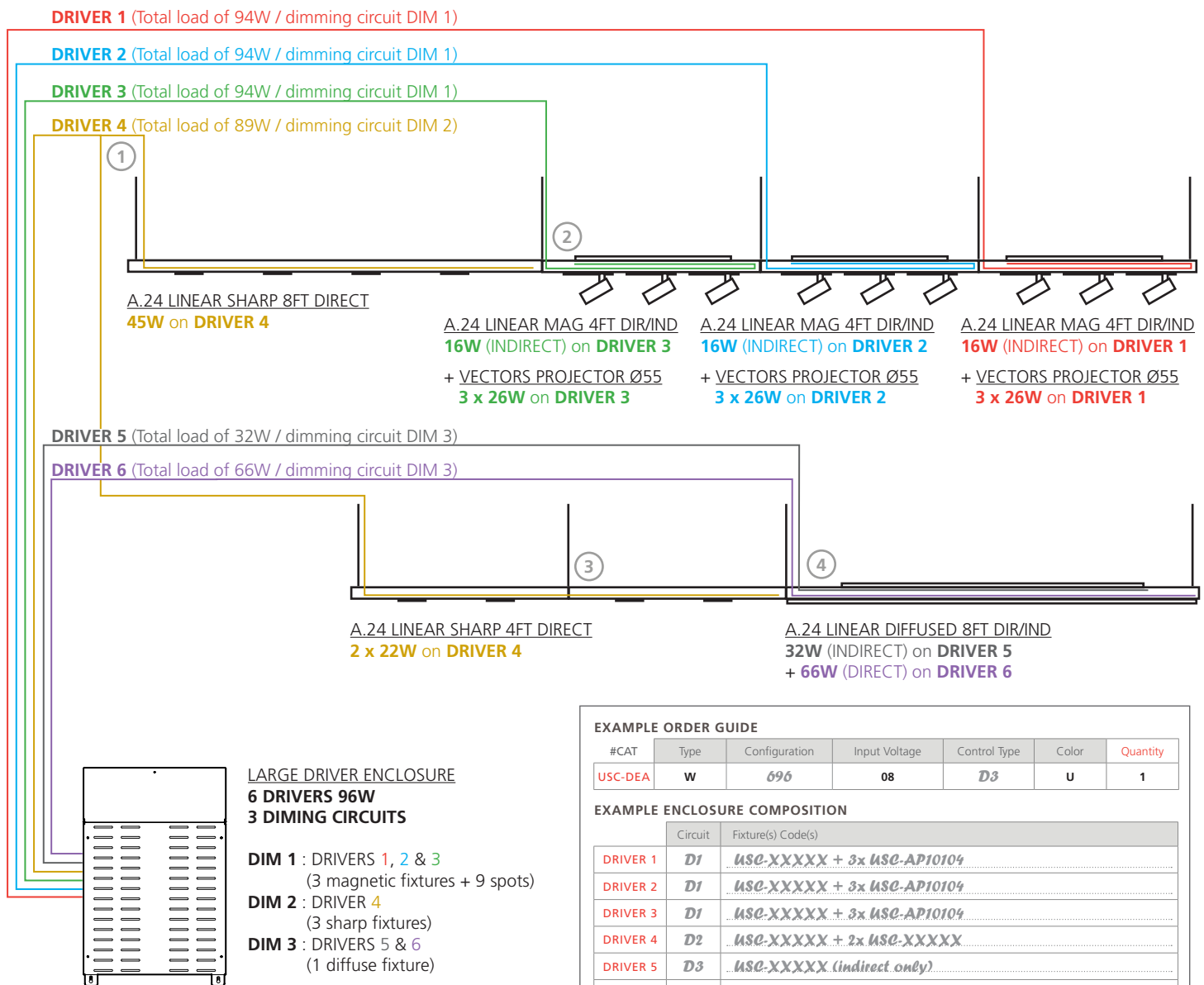
It is important to not exceed the maximum distance between the remote driver box and any fixture feed point. See table below.

VOLTAGE DROP	AWG WIRE GAGE		
	10	12	14
96 W	744' 227m	449' 137m	291' 89m

6. EXAMPLE FOR A A.24 SYSTEM

A typical A.24 system is represented on the page with a 6 driver example including the guidelines. Important points are marked by numbers ① and explain how this example is built.

- ① Do not exceed 96W load per driver.
- ② Pay attention to the indirect light, it makes up a part of the total load with vector projectors if indirect emission is chosen.
- ③ It's possible to connect several fixtures in a row on the same driver. If the circuit is dimmable, fixtures must have the same emission.
- ④ The A.24 linear diffused 8FT DIR/IND is fed by two different drivers because of the maximum load allowed on a driver. The module is equipped to receive 2 feed wires.



EXAMPLE ORDER GUIDE

#CAT	Type	Configuration	Input Voltage	Control Type	Color	Quantity
USC-DEA	W	696	08	D3	U	1

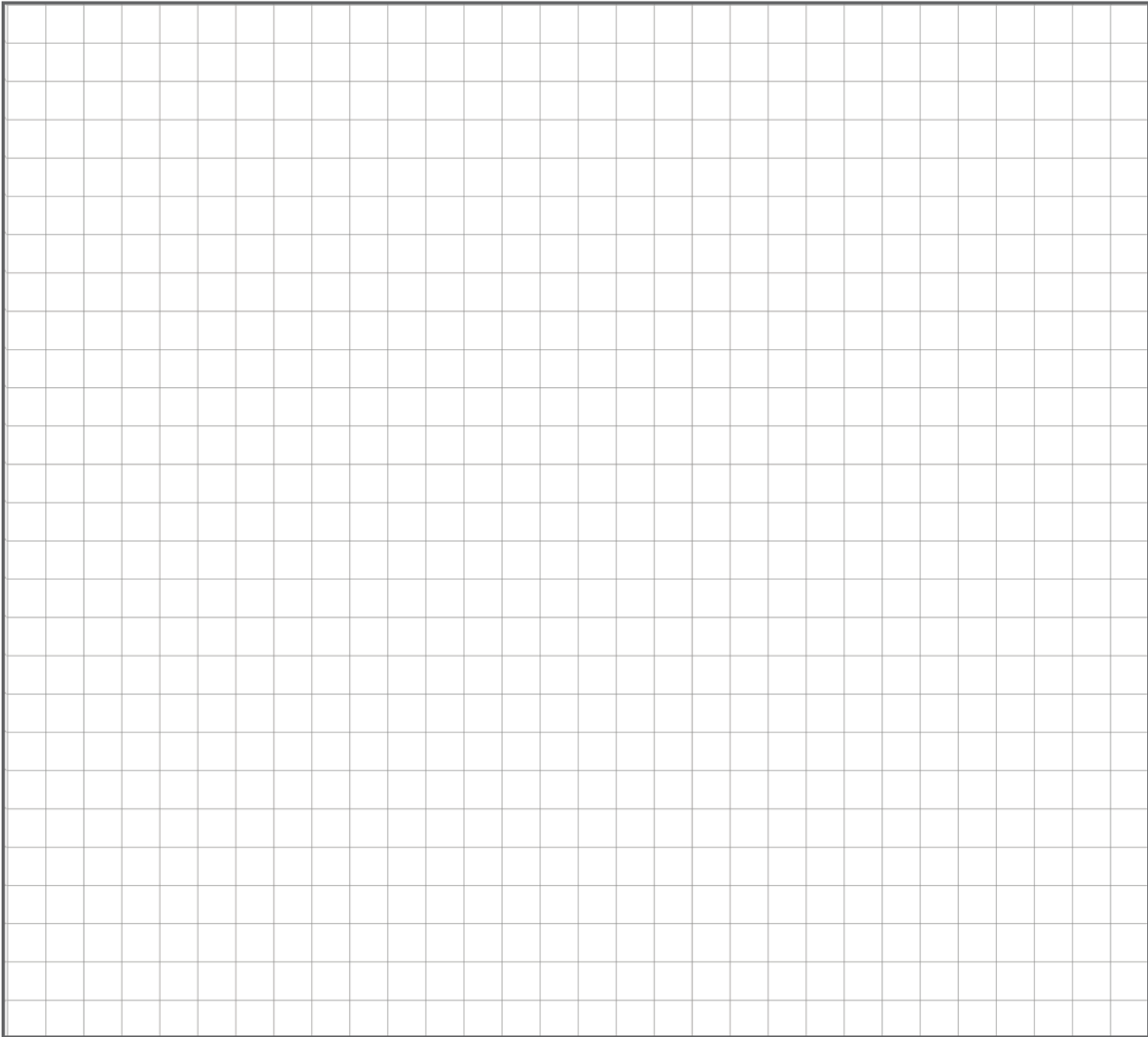
EXAMPLE ENCLOSURE COMPOSITION

	Circuit	Fixture(s) Code(s)
DRIVER 1	D1	USC-XXXXX + 3x USC-AP10104
DRIVER 2	D1	USC-XXXXX + 3x USC-AP10104
DRIVER 3	D1	USC-XXXXX + 3x USC-AP10104
DRIVER 4	D2	USC-XXXXX + 2x USC-XXXXX
DRIVER 5	D3	USC-XXXXX (indirect only)
DRIVER 6	D3	USC-XXXXX (direct only)

SYSTEM LAYOUT

The A.24 System layout of the ordered Driver Enclosure is required to make the order. Please follow the previous example to draw it below and complete the order guide.

Project Name	
Description	
Type	
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ORDER GUIDE

To compose an A.24 driver enclosure you must fill the driver box code with the number of drivers and its features. It's also necessary to complete the "Enclosure composition" table with the system info fed by the enclosure.
Fill the surge protection code if needed.

USE ONE ORDER GUIDE PER DRIVER ENCLOSURE.

To help the factory better understand your order, you must attach the A.24 system layout fed by the enclosure.

DRIVER BOX

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COLOR	U = galvanized

ORDER GUIDE (REQUIRED)

#CAT	Type	Configuration	Input Voltage	Control Type	Color	Quantity
USC-DEA	W	296	08		U	1

#CAT	Type	Configuration	Input Voltage	Control Type	Color	Quantity
USC-DEA	W		08		U	1

ENCLOSURE COMPOSITION (REQUIRED)

	Circuit	Fixture(s) Code(s)
DRIVER 1		
DRIVER 2		
DRIVER 3		
DRIVER 4		
DRIVER 5		
DRIVER 6		
DRIVER 7		
DRIVER 8		

*SURGE PROTECTION

TYPE	SU = surge protection
WATTAGE DRIVERS	96 = 96W
INPUT CIRCUIT	1 = 1 circuit driver enclosure 2 = 2 circuits driver enclosure 3 = 3 circuits driver enclosure

(leave it blank if no surge protection)

ORDER GUIDE (OPTIONAL)

#CAT	Type	Wattage of drivers	Input Circuits	Quantity
USC-DEA	SU	96		